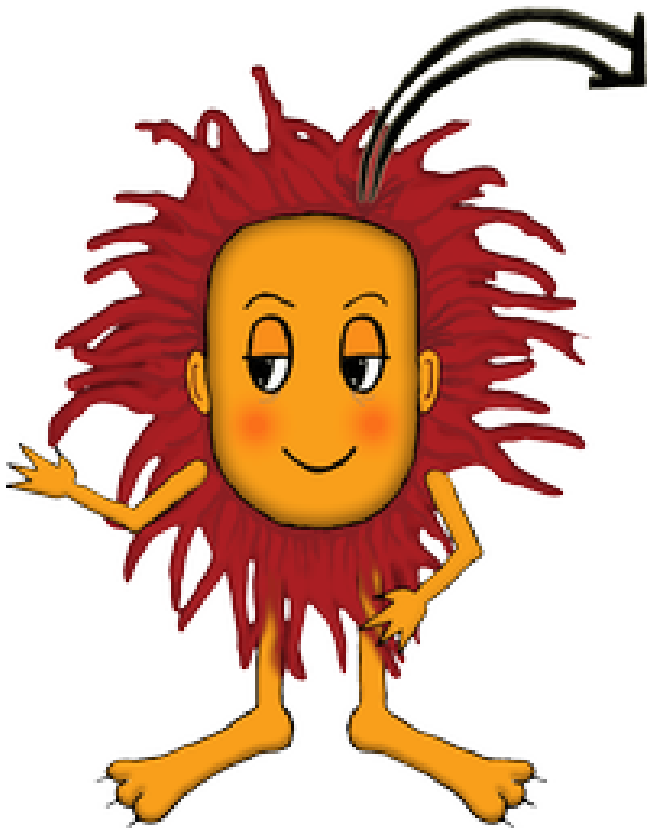
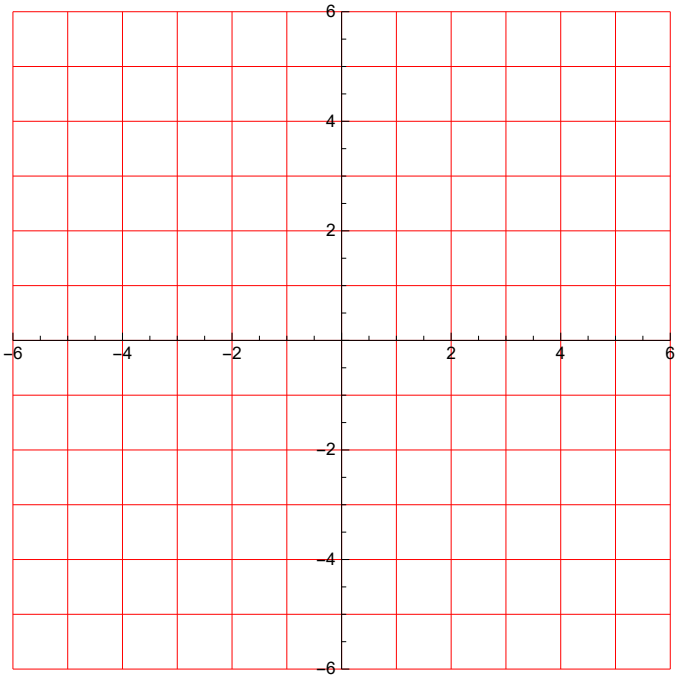
Velika logična pošast



Enačba premice skozi izhodišče in dano točko

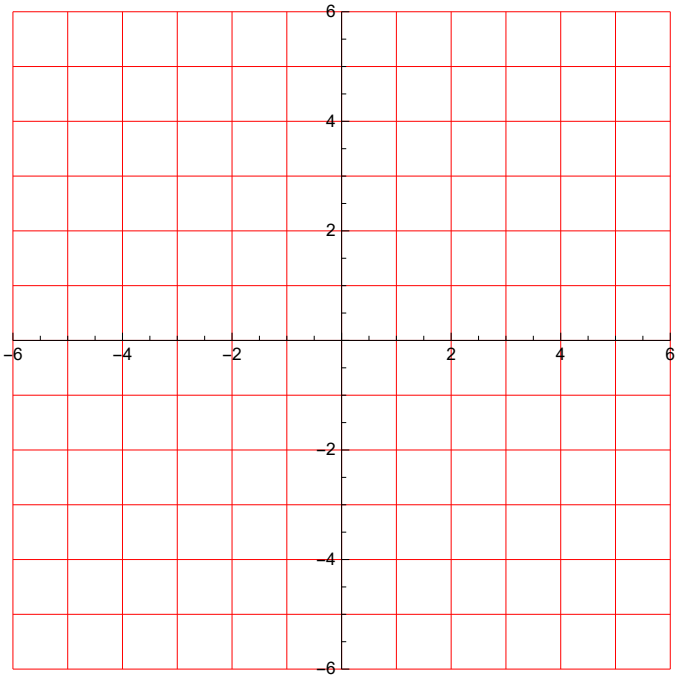
Zapiši enačbe premic, ki gredo skozi izhodišče in dane točke.
Ali so med premicami tudi pari pravokotnih premic?
Ali lahko na osnovi koordinat točk sklepamo o pravokotnosti?

1.



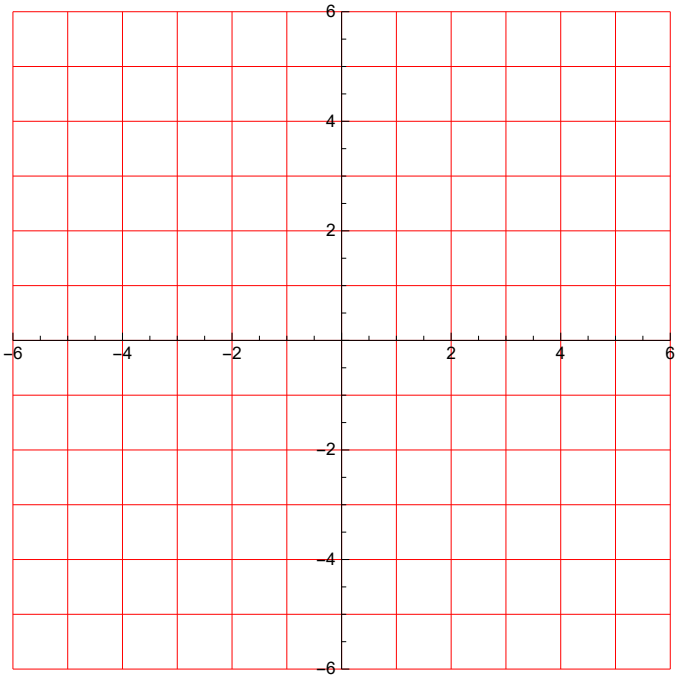
A (−3, −2)
B (−1, 0)
C (−1, 4)
D (−4, −1)
E (−5, 5)
F (2, −3)
G (0, −1)
H (−4, −1)
I (1, −4)
J (−5, −5)

2.



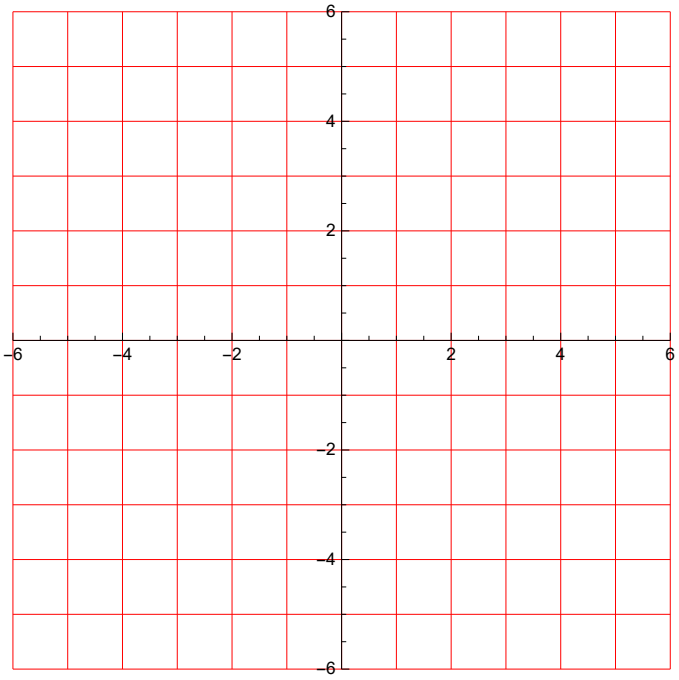
A (4, −4)
B (0, −5)
C (−3, −3)
D (−1, 5)
E (−4, −5)
F (4, 4)
G (5, 0)
H (3, −3)
I (−5, −1)
J (5, −4)

3.



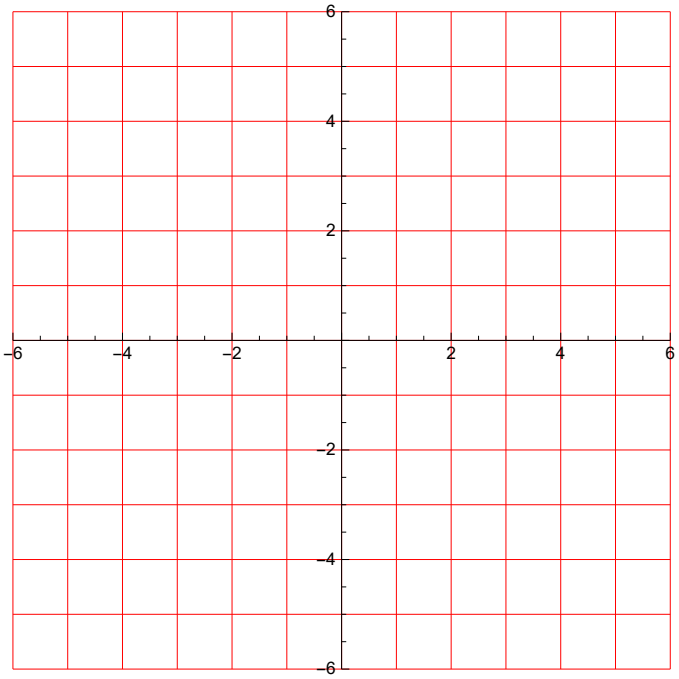
A (−2, −1)
B (−4, −3)
C (−5, −2)
D (4, −3)
E (2, −5)
F (1, −2)
G (3, −4)
H (2, −5)
I (3, 4)
J (5, 2)

4.



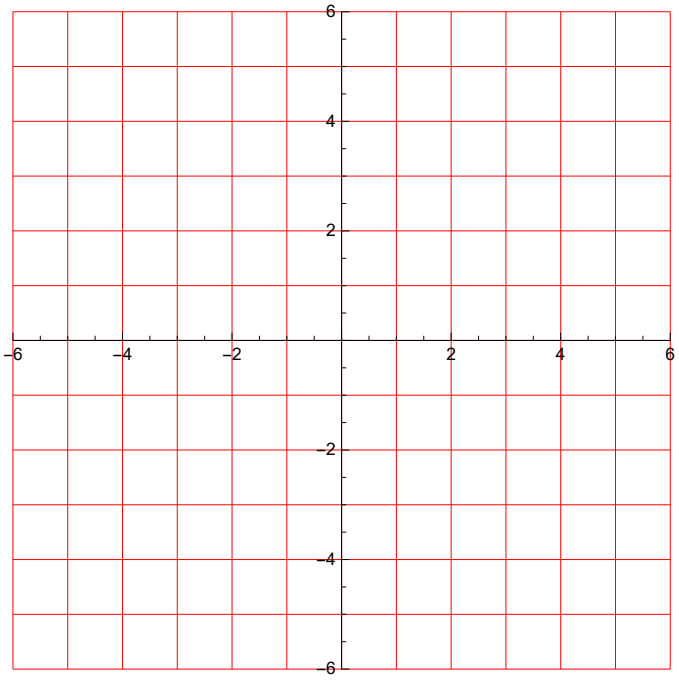
A (3, 0)
B (2, 5)
C (−4, 0)
D (−1, 5)
E (−4, 4)
F (0, 3)
G (−5, 2)
H (0, −4)
I (−5, −1)
J (−4, −4)

5.



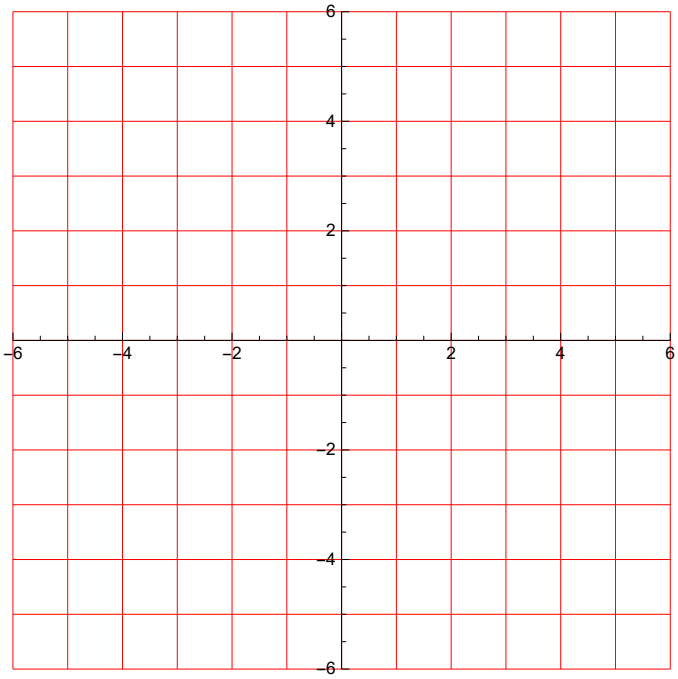
A (−3,3)
B (−4,−5)
C (3,2)
D (−2,4)
E (−2,−5)
F (−3,−3)
G (5,−4)
H (−2,3)
I (−4,−2)
J (5,−2)

6.



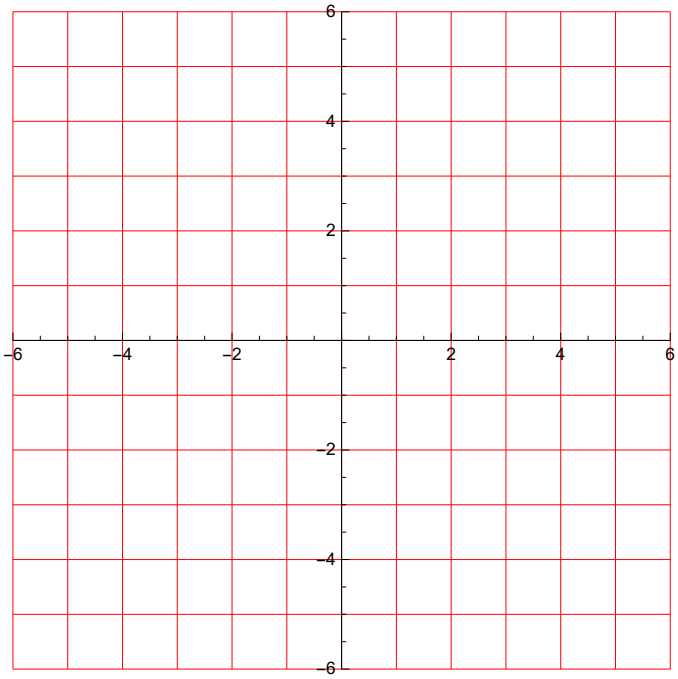
A (1,−5)
B (0,−5)
C (3,−3)
D (−3,5)
E (3,−5)
F (5,1)
G (5,0)
H (3,3)
I (−5,−3)
J (5,3)

7.



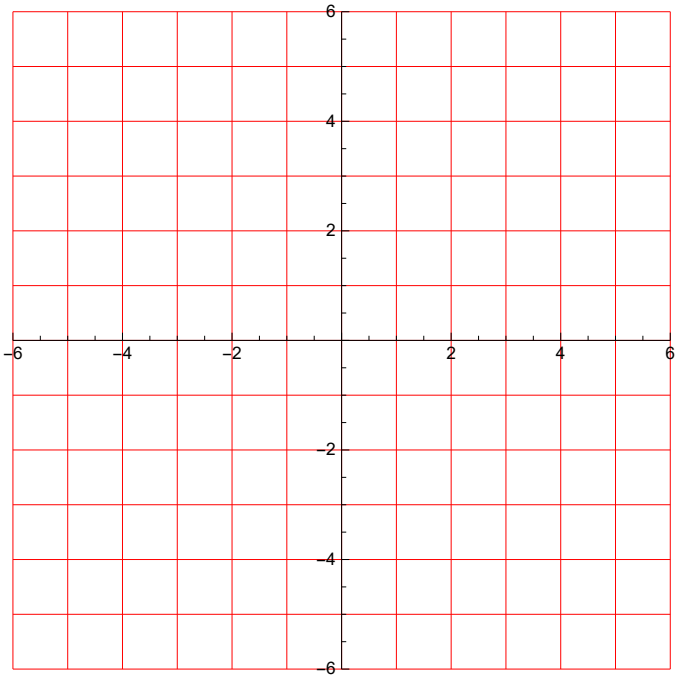
A (1, −1)
B (−2, 0)
C (4, −5)
D (2, 2)
E (2, −1)
F (1, 1)
G (0, −2)
H (5, 4)
I (−2, 2)
J (1, 2)

8.



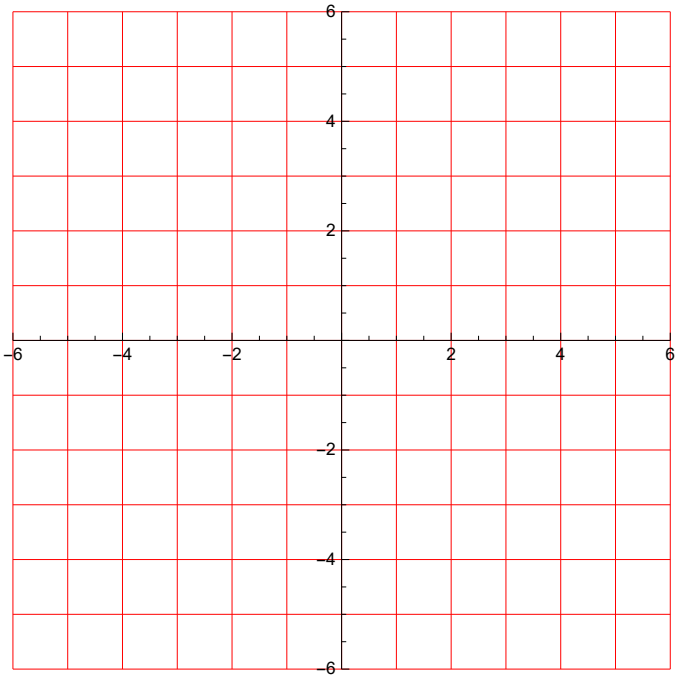
A (−4, 2)
B (−3, 5)
C (1, 0)
D (1, 4)
E (−1, 3)
F (−2, −4)
G (−5, −3)
H (0, 1)
I (−4, 1)
J (−3, −1)

9.



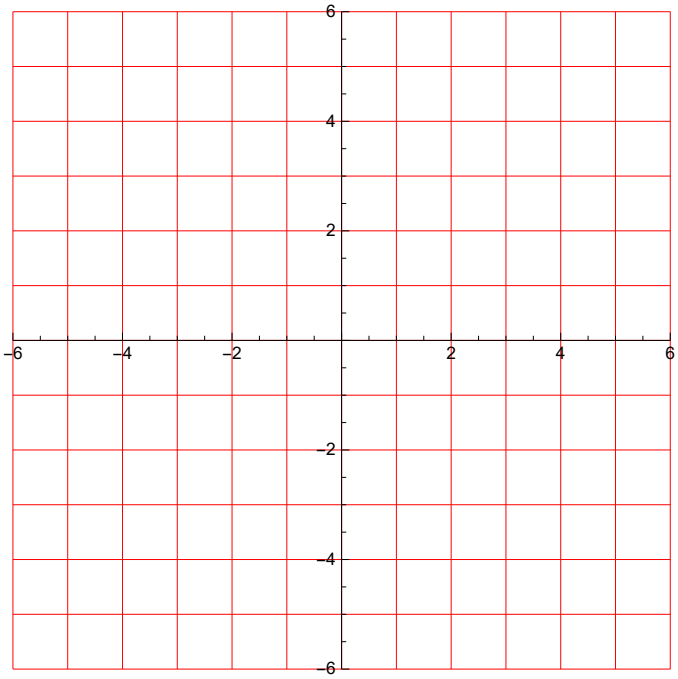
A (−2,3)
B (4,−1)
C (−1,−2)
D (1,−2)
E (2,0)
F (−3,−2)
G (1,4)
H (2,−1)
I (2,1)
J (0,2)

10.



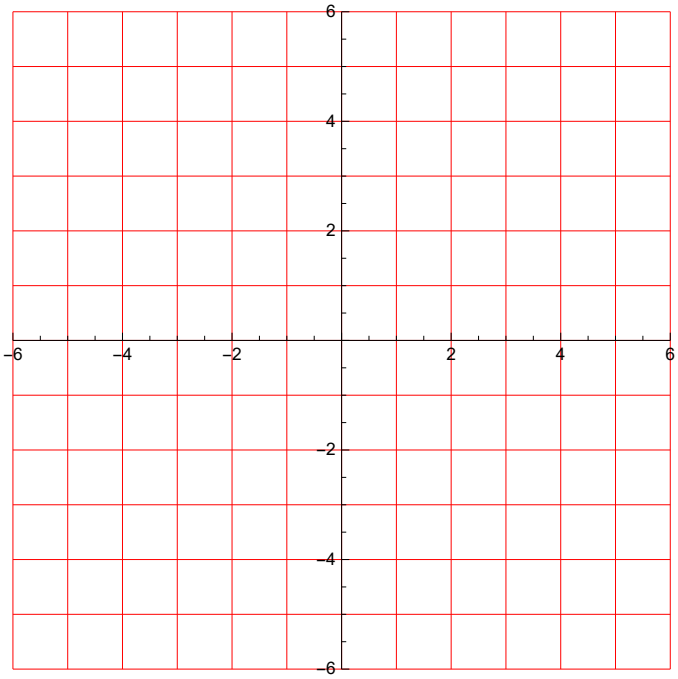
A (−2,1)
B (−5,−3)
C (3,1)
D (−1,3)
E (5,3)
F (−1,−2)
G (3,−5)
H (−1,3)
I (−3,−1)
J (−3,5)

11.



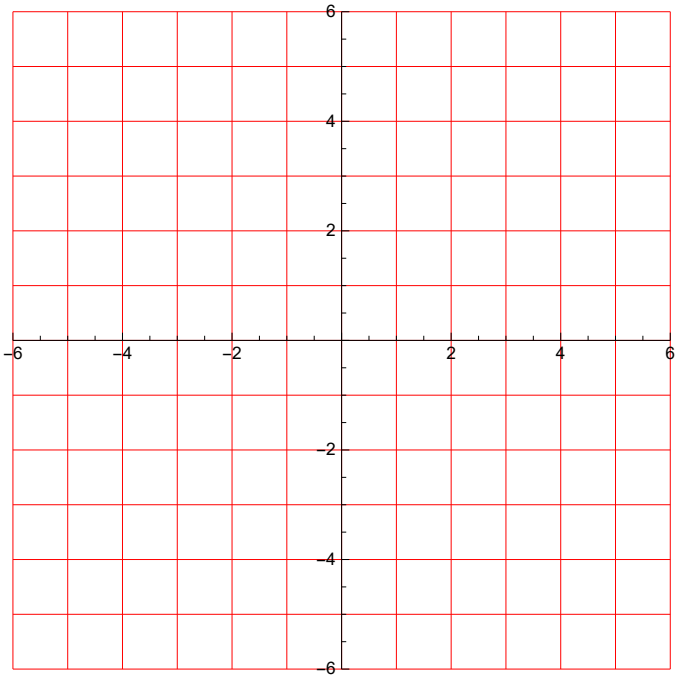
A (−5,3)
B (−3,2)
C (0,−3)
D (−4,0)
E (−5,−3)
F (−3,−5)
G (−2,−3)
H (3,0)
I (0,−4)
J (3,−5)

12.



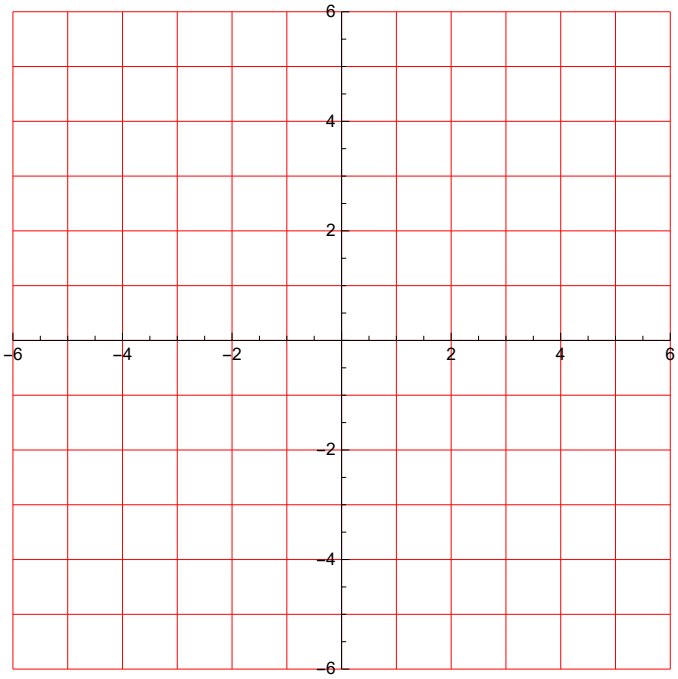
A (3,3)
B (2,2)
C (−5,−2)
D (−4,−4)
E (−5,−3)
F (−3,3)
G (−2,2)
H (2,−5)
I (4,−4)
J (3,−5)

13.



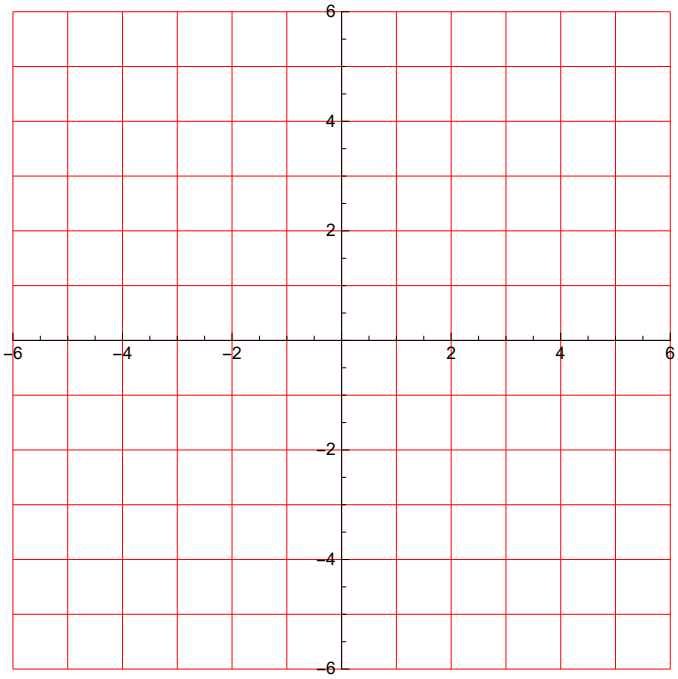
A(5,5)
B(0,−5)
C(4,−3)
D(−4,−1)
E(5,−1)
F(−5,5)
G(5,0)
H(3,4)
I(1,−4)
J(1,5)

14.



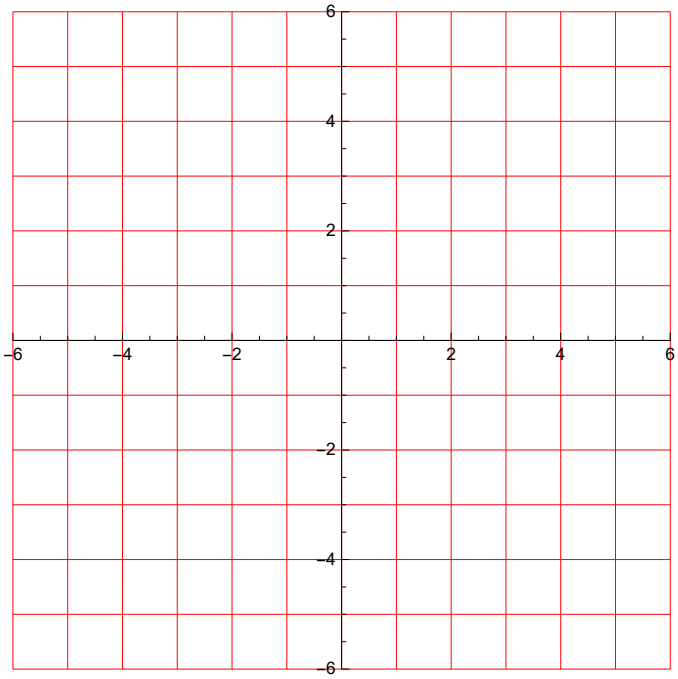
A(2,3)
B(−5,−5)
C(−4,0)
D(−1,4)
E(0,1)
F(−3,2)
G(5,−5)
H(0,−4)
I(−4,−1)
J(−1,0)

15.



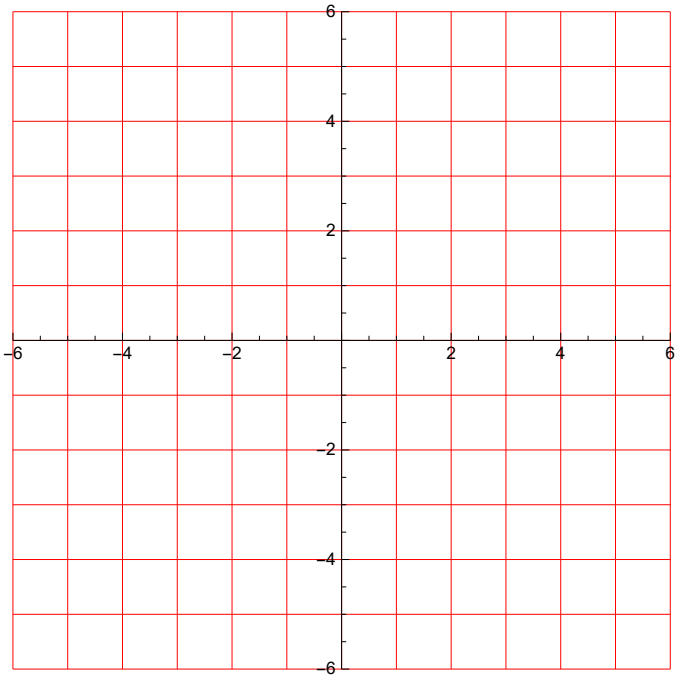
A (0, −3)
B (−4, 4)
C (1, −2)
D (1, 1)
E (0, 1)
F (3, 0)
G (−4, −4)
H (2, 1)
I (−1, 1)
J (−1, 0)

16.



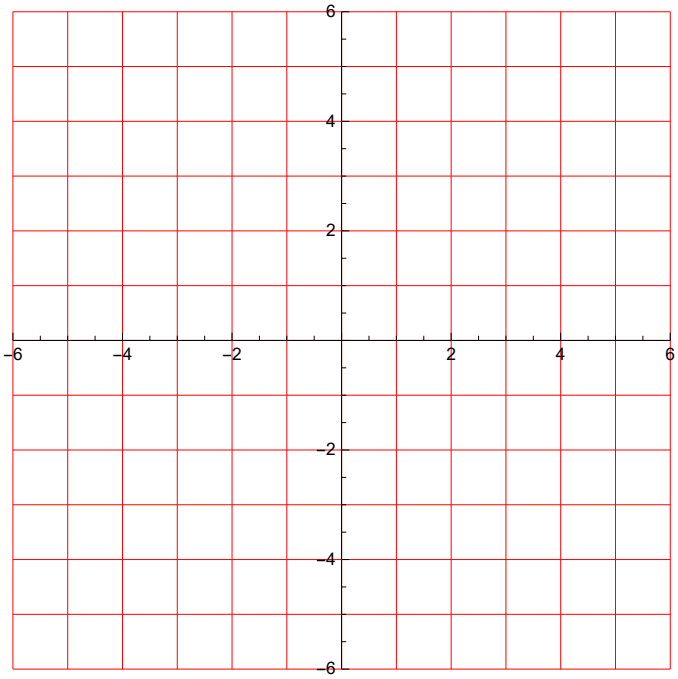
A (−3, −1)
B (5, 0)
C (−5, 0)
D (2, 5)
E (3, 5)
F (1, −3)
G (0, 5)
H (0, −5)
I (−5, 2)
J (−5, 3)

17.



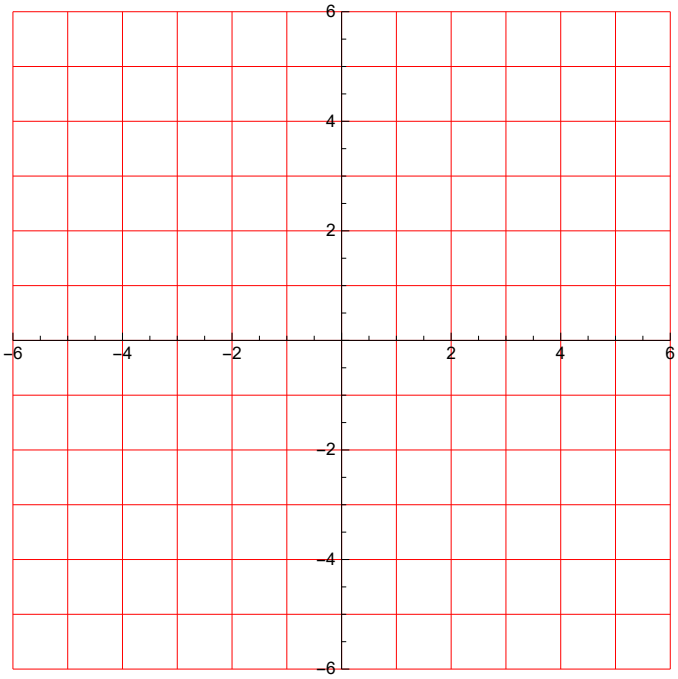
A (−1,1)
B (2,2)
C (−4,−4)
D (−2,4)
E (−5,4)
F (−1,−1)
G (−2,2)
H (4,−4)
I (−4,−2)
J (−4,−5)

18.



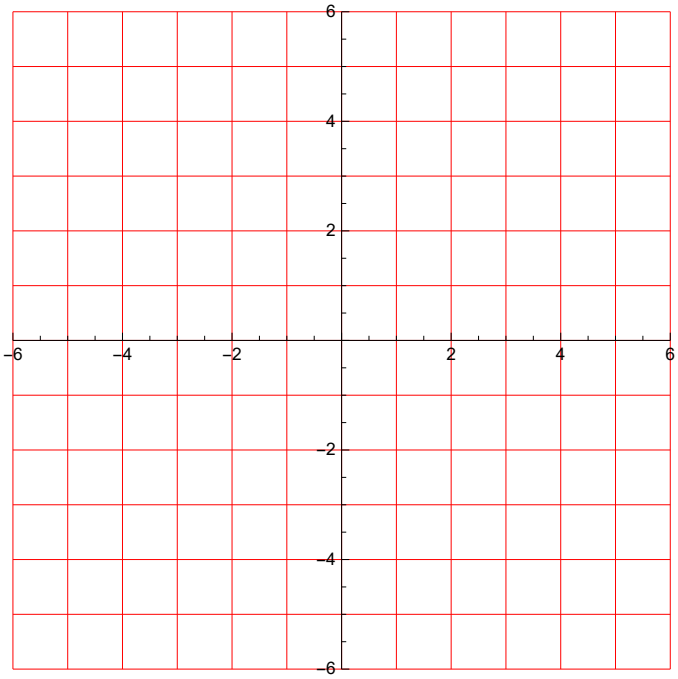
A (1,0)
B (5,5)
C (2,0)
D (−4,0)
E (−3,0)
F (0,1)
G (−5,5)
H (0,2)
I (0,−4)
J (0,−3)

19.



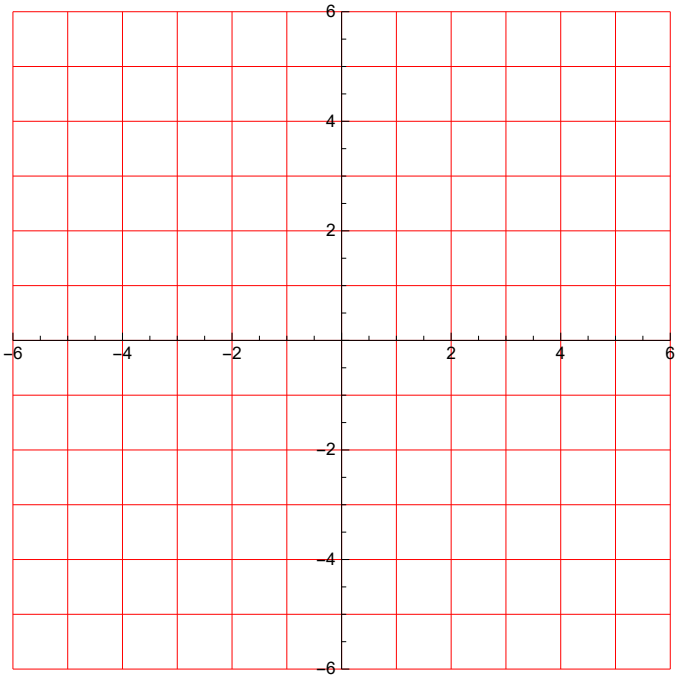
A(−4,2)
B(0,−3)
C(1,1)
D(−5,0)
E(3,−2)
F(−2,−4)
G(3,0)
H(−1,1)
I(0,−5)
J(2,3)

20.



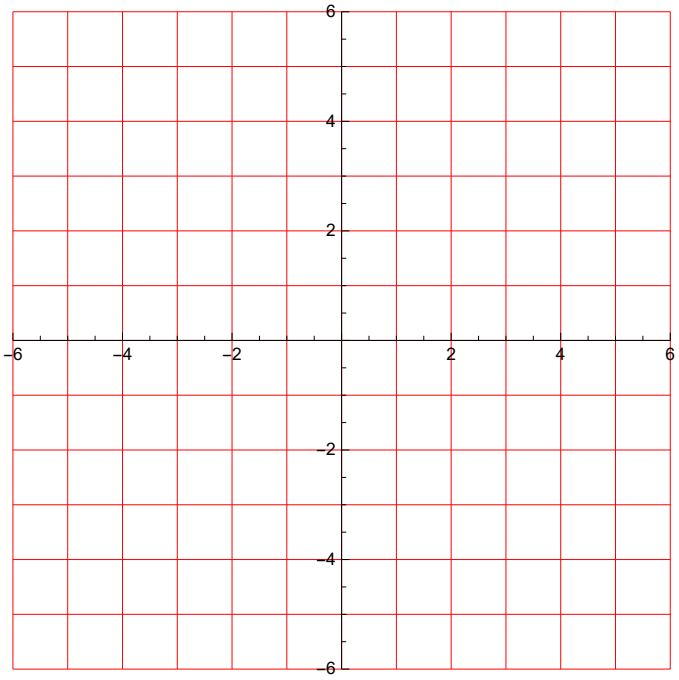
A(0,5)
B(2,5)
C(2,−5)
D(5,−1)
E(0,2)
F(−5,0)
G(−5,2)
H(5,2)
I(1,5)
J(−2,0)

21.



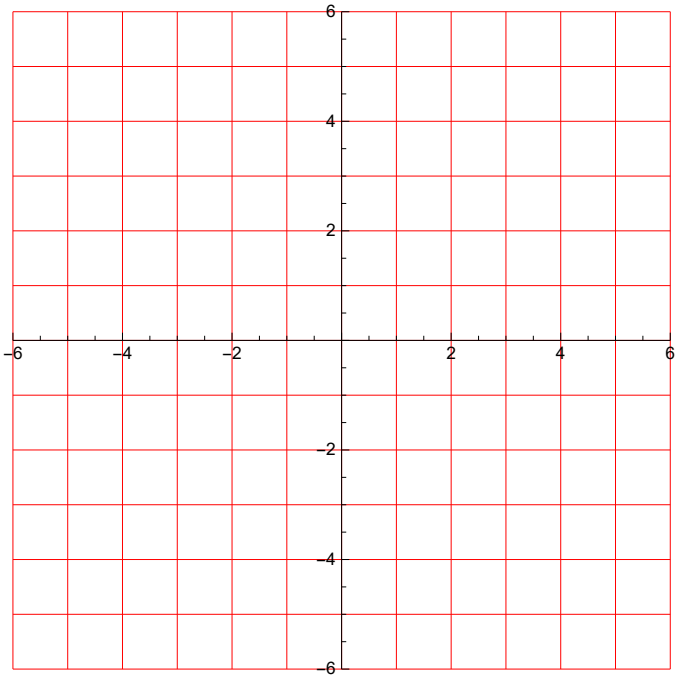
A (−2, −3)
B (1, 5)
C (−3, 5)
D (−5, 4)
E (3, 5)
F (3, −2)
G (−5, 1)
H (−5, −3)
I (−4, −5)
J (−5, 3)

22.



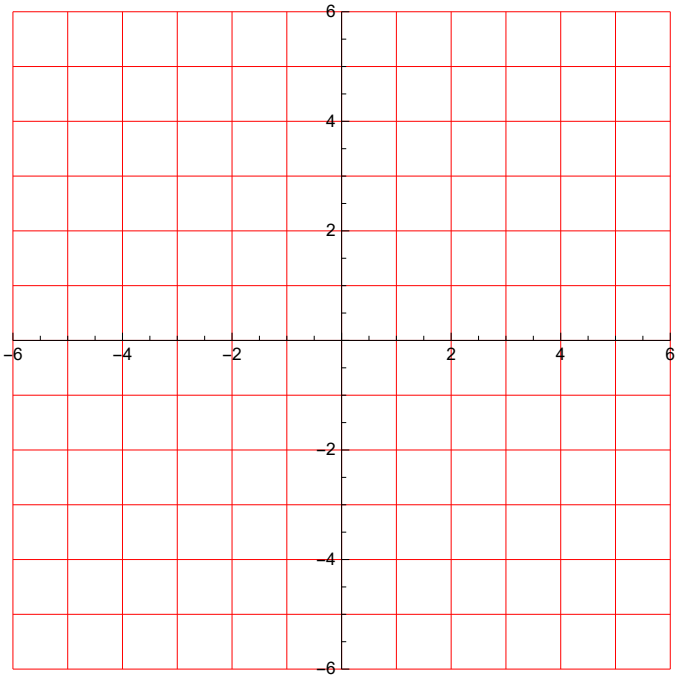
A (1, −2)
B (−1, 4)
C (−4, −4)
D (0, −1)
E (−4, 2)
F (2, 1)
G (−4, −1)
H (4, −4)
I (1, 0)
J (−2, −4)

23.



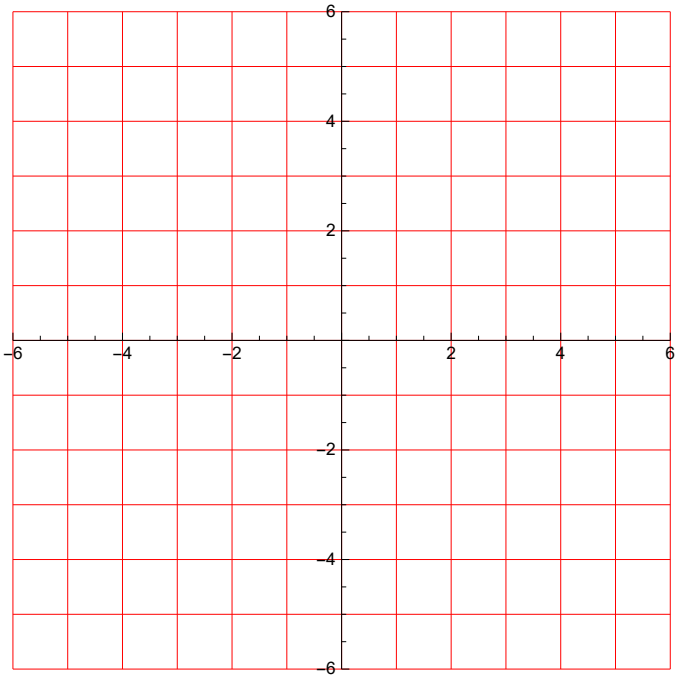
A (−2, −5)
B (1, −3)
C (−2, 3)
D (−4, 4)
E (4, −4)
F (5, −2)
G (3, 1)
H (−3, −2)
I (−4, −4)
J (4, 4)

24.



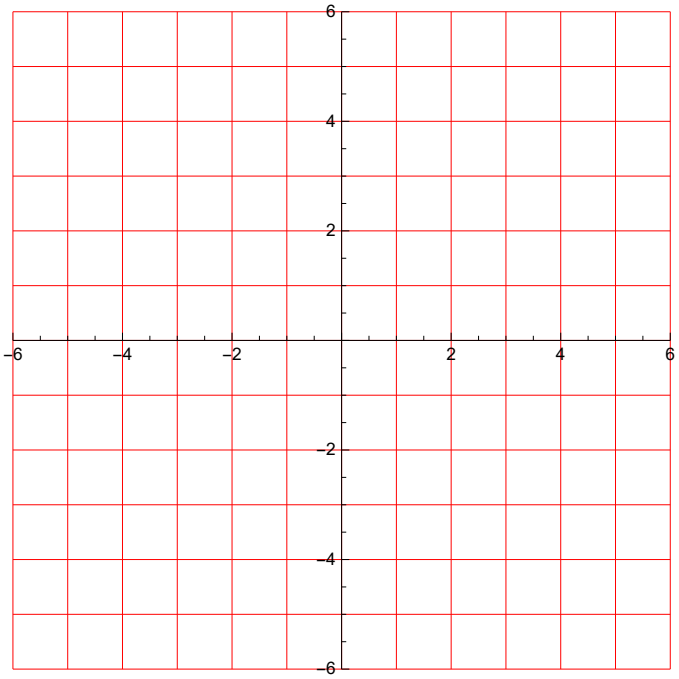
A (−2, −3)
B (−2, 2)
C (−2, −5)
D (3, −2)
E (1, 1)
F (3, −2)
G (−2, −2)
H (5, −2)
I (2, 3)
J (−1, 1)

25.



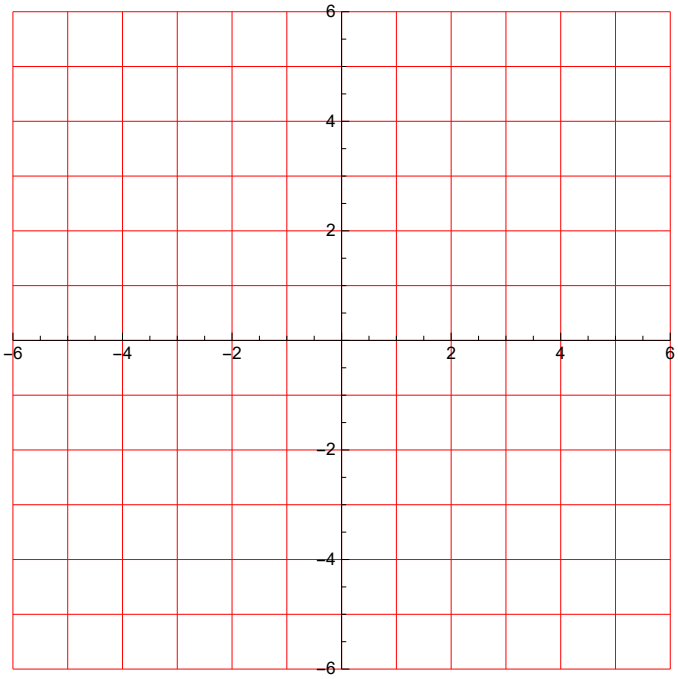
A (−2, −3)
B (3, 3)
C (−2, 3)
D (3, 2)
E (0, −3)
F (3, −2)
G (−3, 3)
H (−3, −2)
I (−2, 3)
J (3, 0)

26.



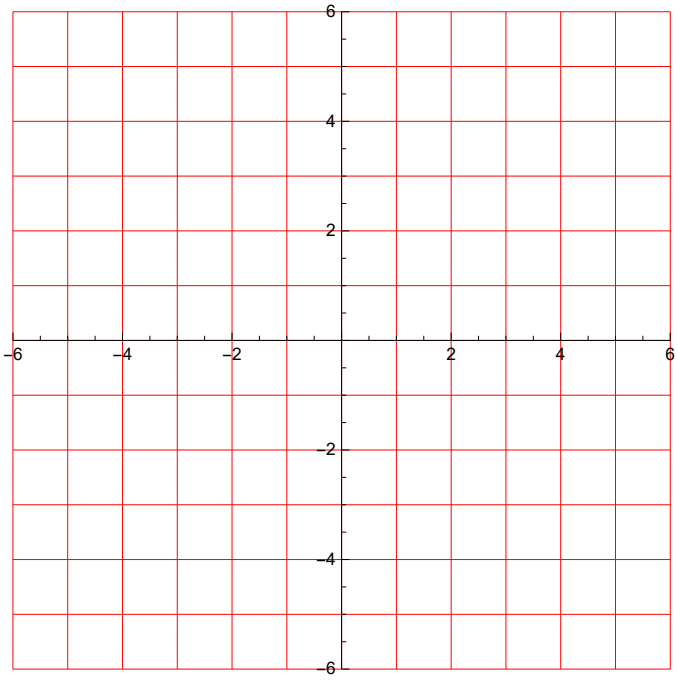
A (2, −4)
B (4, −4)
C (−2, −5)
D (4, −1)
E (−5, −4)
F (4, 2)
G (4, 4)
H (5, −2)
I (1, 4)
J (4, −5)

27.



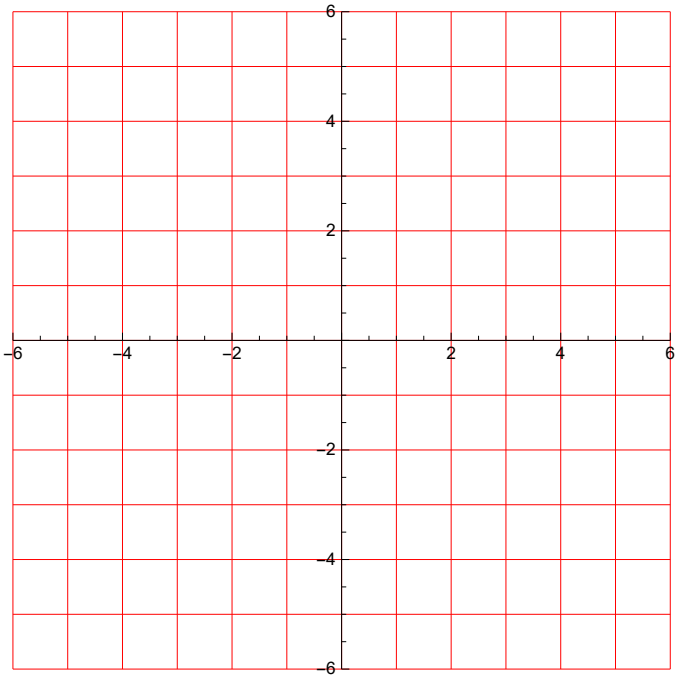
A (0,0)
B (−2,−4)
C (0,−2)
D (−2,4)
E (0,4)
F (0,0)
G (4,−2)
H (2,0)
I (−4,−2)
J (−4,0)

28.



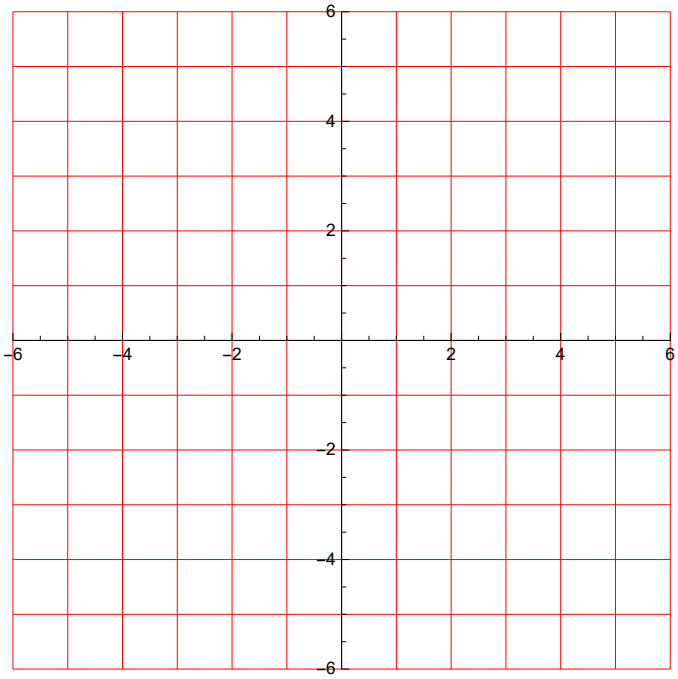
A (2,−3)
B (5,−5)
C (5,0)
D (3,−4)
E (−2,1)
F (3,2)
G (5,5)
H (0,5)
I (4,3)
J (−1,−2)

29.



A(0,3)
B(1,1)
C(−1,3)
D(0,−1)
E(5,−5)
F(−3,0)
G(−1,1)
H(−3,−1)
I(1,0)
J(5,5)

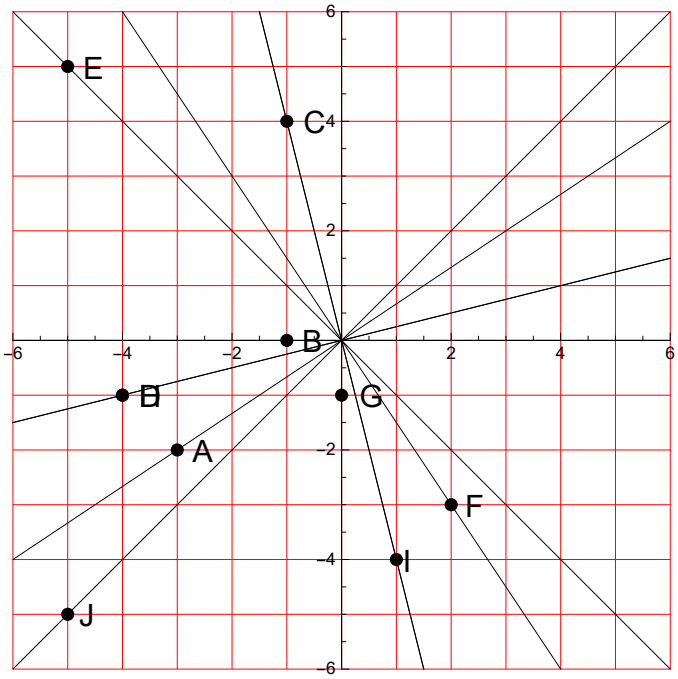
30.



A(−1,−5)
B(−2,2)
C(−1,0)
D(−3,3)
E(0,3)
F(5,−1)
G(−2,−2)
H(0,−1)
I(−3,−3)
J(−3,0)

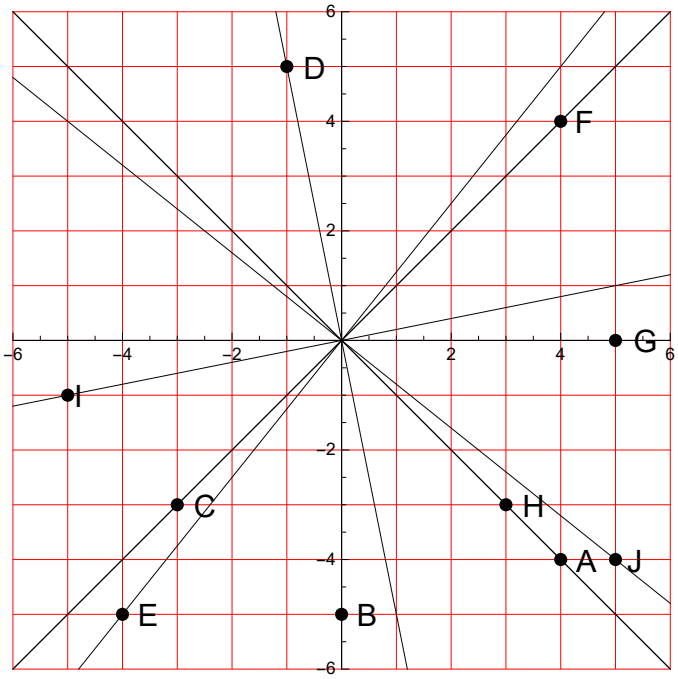
Rešitve:

1.



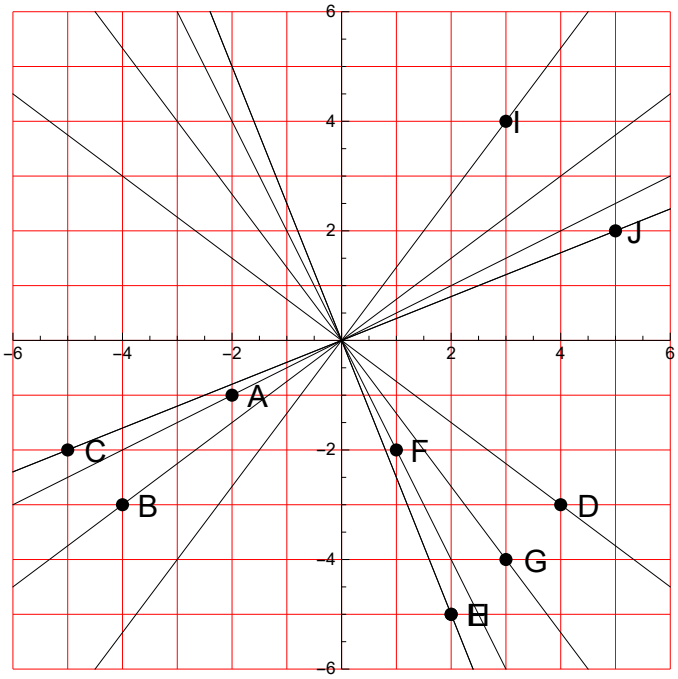
$OA: y = \frac{2x}{3}$
$OB: y = 0$
$OC: y = -4x$
$OD: y = \frac{x}{4}$
$OE: y = -x$
$OF: y = -\frac{3x}{2}$
$OG: x = 0$
$OH: y = \frac{x}{4}$
$OI: y = -4x$
$OJ: y = x$

2.



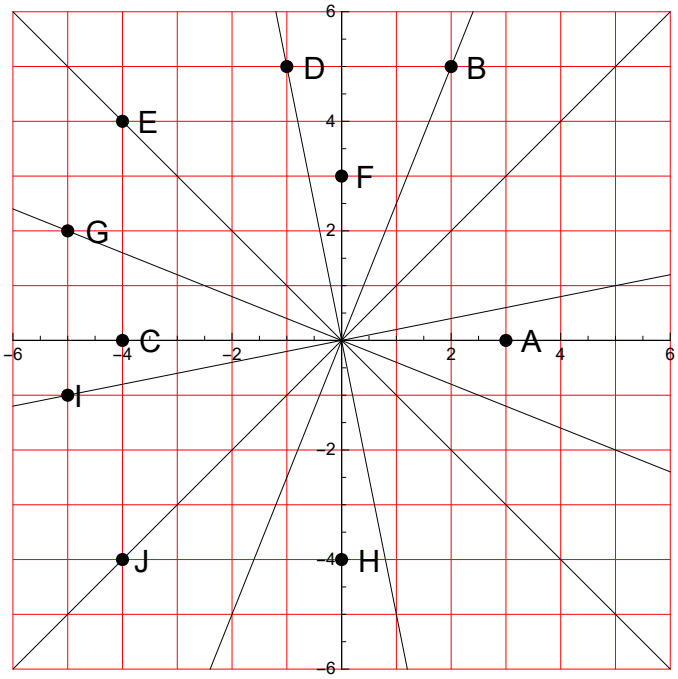
$OA: y = -x$
$OB: x = 0$
$OC: y = x$
$OD: y = -5x$
$OE: y = \frac{5x}{4}$
$OF: y = x$
$OG: y = 0$
$OH: y = -x$
$OI: y = \frac{x}{5}$
$OJ: y = -\frac{4x}{5}$

3.



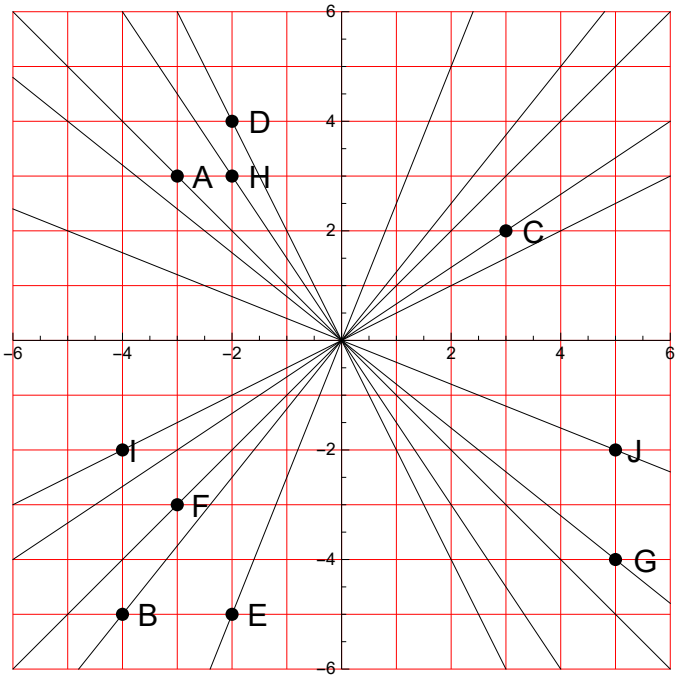
$OA: y = \frac{x}{2}$
$OB: y = \frac{3x}{4}$
$OC: y = \frac{2x}{5}$
$OD: y = -\frac{3x}{4}$
$OE: y = -\frac{5x}{2}$
$OF: y = -2x$
$OG: y = -\frac{4x}{3}$
$OH: y = -\frac{5x}{2}$
$OI: y = \frac{4x}{3}$
$OJ: y = \frac{2x}{5}$

4.



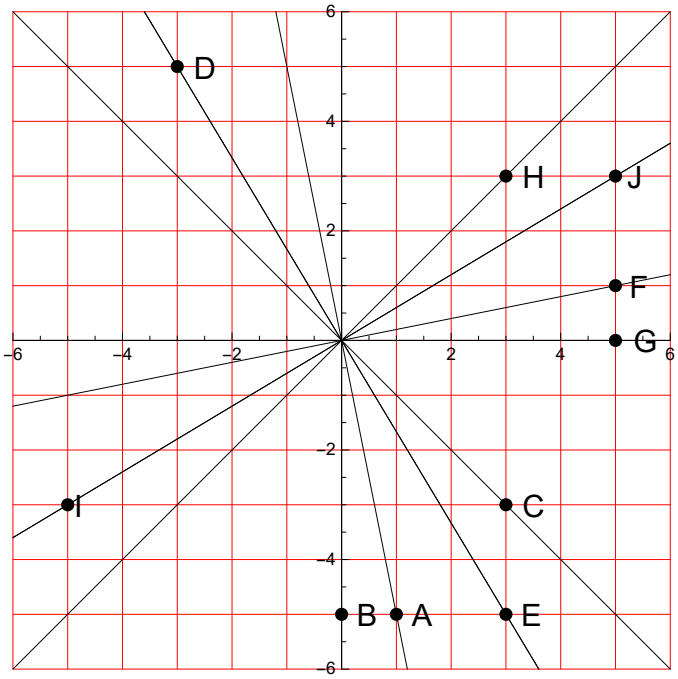
$OA: y = 0$
$OB: y = \frac{5x}{2}$
$OC: y = 0$
$OD: y = -5x$
$OE: y = -x$
$OF: x = 0$
$OG: y = -\frac{2x}{5}$
$OH: x = 0$
$OI: y = \frac{x}{5}$
$OJ: y = x$

5.



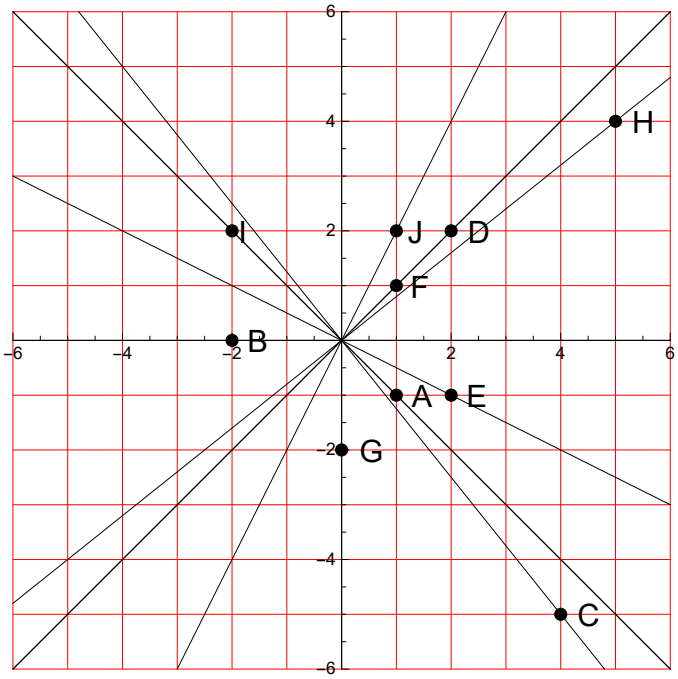
$OA: y = -x$
$OB: y = \frac{5x}{4}$
$OC: y = \frac{2x}{3}$
$OD: y = -2x$
$OE: y = \frac{5x}{2}$
$OF: y = x$
$OG: y = -\frac{4x}{5}$
$OH: y = -\frac{3x}{2}$
$OI: y = \frac{x}{2}$
$OJ: y = -\frac{2x}{5}$

6.



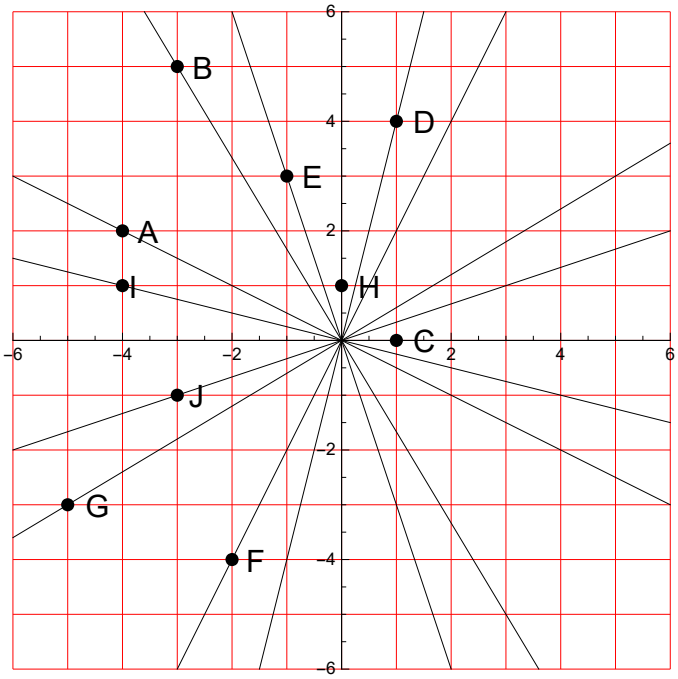
$OA: y = -5x$
$OB: x = 0$
$OC: y = -x$
$OD: y = -\frac{5x}{3}$
$OE: y = -\frac{5x}{3}$
$OF: y = \frac{x}{5}$
$OG: y = 0$
$OH: y = x$
$OI: y = \frac{3x}{5}$
$OJ: y = \frac{3x}{5}$

7.



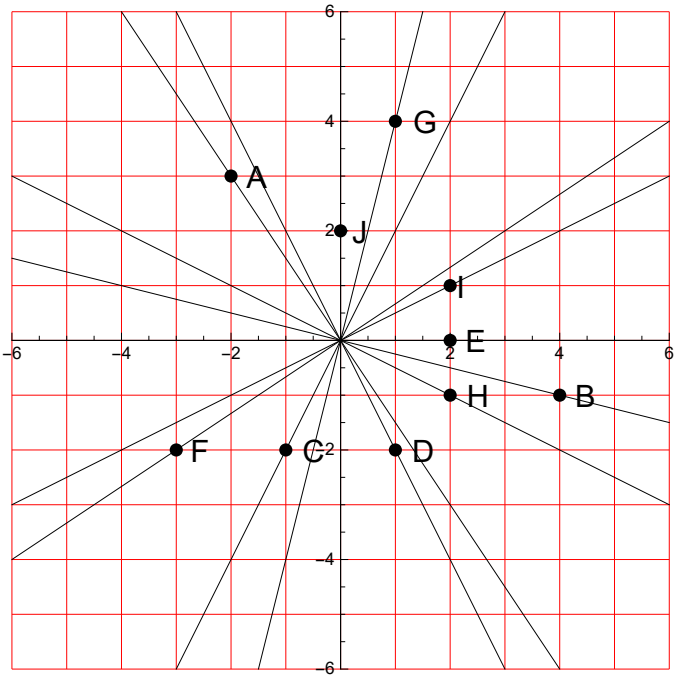
OA: $y = -x$
OB: $y = 0$
OC: $y = -\frac{5x}{4}$
OD: $y = x$
OE: $y = -\frac{x}{2}$
OF: $y = x$
OG: $x = 0$
OH: $y = \frac{4x}{5}$
OI: $y = -x$
OJ: $y = 2x$

8.



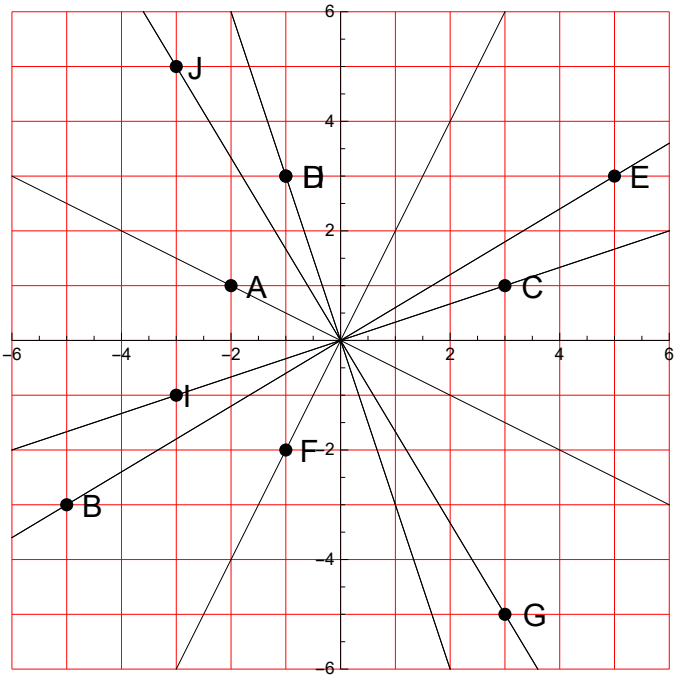
OA: $y = -\frac{x}{2}$
OB: $y = -\frac{5x}{3}$
OC: $y = 0$
OD: $y = 4x$
OE: $y = -3x$
OF: $y = 2x$
OG: $y = \frac{3x}{5}$
OH: $x = 0$
OI: $y = -\frac{x}{4}$
OJ: $y = \frac{x}{3}$

9.



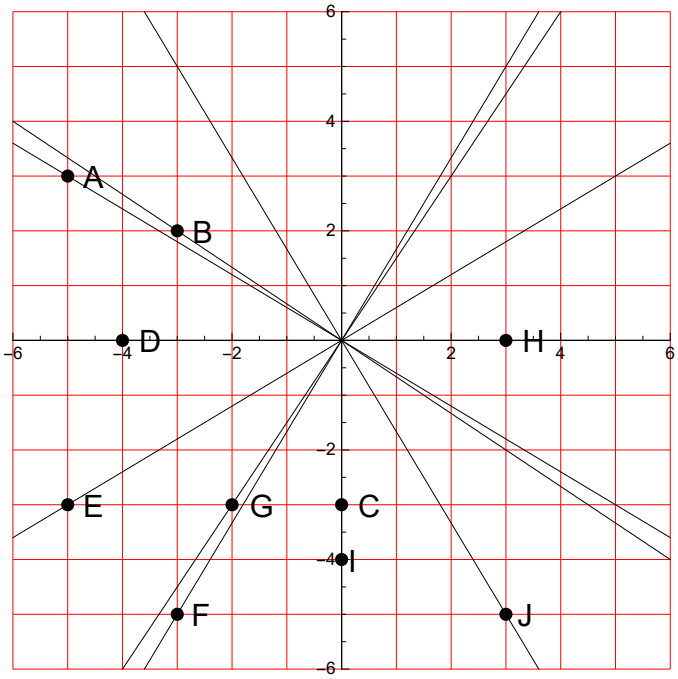
OA: $y = -\frac{3x}{2}$
OB: $y = -\frac{x}{4}$
OC: $y = 2x$
OD: $y = -2x$
OE: $y = 0$
OF: $y = \frac{2x}{3}$
OG: $y = 4x$
OH: $y = -\frac{x}{2}$
OI: $y = \frac{x}{2}$
OJ: $x = 0$

10.



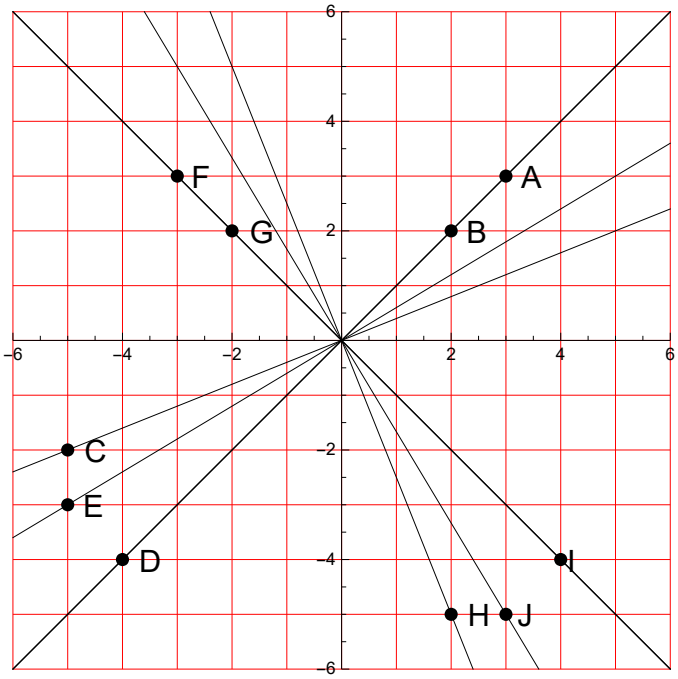
OA: $y = -\frac{x}{2}$
OB: $y = \frac{3x}{5}$
OC: $y = \frac{x}{3}$
OD: $y = -3x$
OE: $y = \frac{3x}{5}$
OF: $y = 2x$
OG: $y = -\frac{5x}{3}$
OH: $y = -3x$
OI: $y = \frac{x}{3}$
OJ: $y = -\frac{5x}{3}$

11.



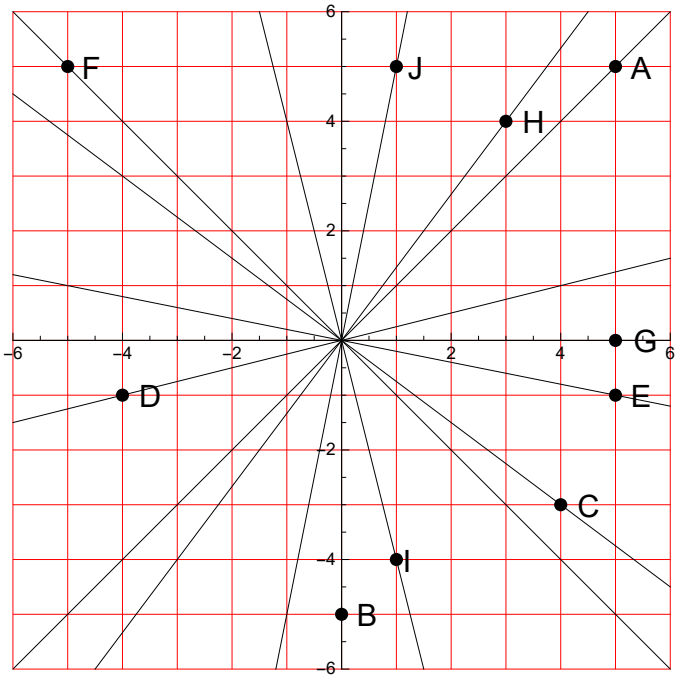
OA: $y = -\frac{3x}{5}$
OB: $y = -\frac{2x}{3}$
OC: $x = 0$
OD: $y = 0$
OE: $y = \frac{3x}{5}$
OF: $y = \frac{5x}{3}$
OG: $y = \frac{3x}{2}$
OH: $y = 0$
OI: $x = 0$
OJ: $y = -\frac{5x}{3}$

12.



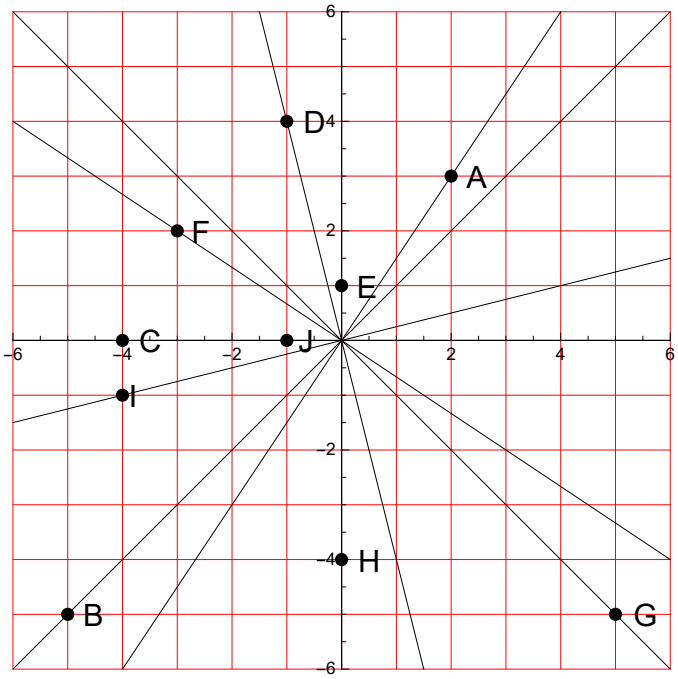
OA: $y = x$
OB: $y = x$
OC: $y = \frac{2x}{5}$
OD: $y = x$
OE: $y = \frac{3x}{5}$
OF: $y = -x$
OG: $y = -x$
OH: $y = -\frac{5x}{2}$
OI: $y = -x$
OJ: $y = -\frac{5x}{3}$

13.



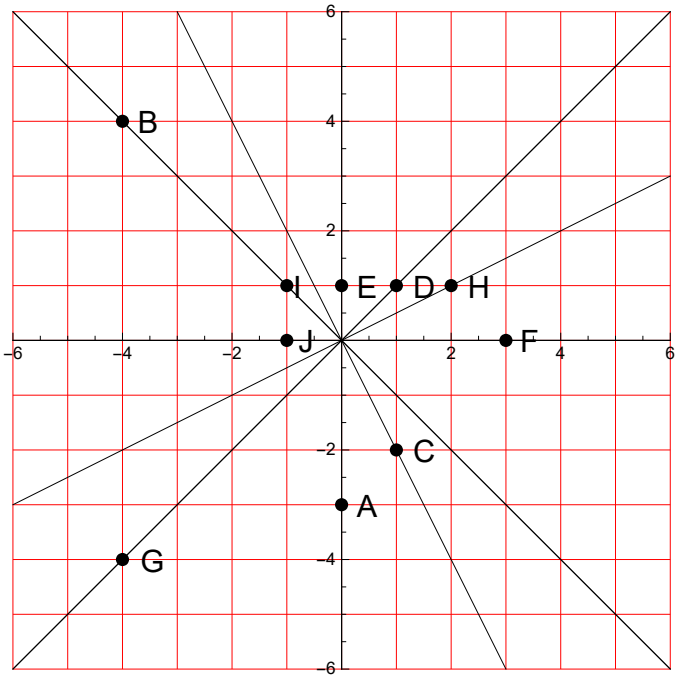
OA: $y = x$
OB: $x = 0$
OC: $y = -\frac{3x}{4}$
OD: $y = \frac{x}{4}$
OE: $y = -\frac{x}{5}$
OF: $y = -x$
OG: $y = 0$
OH: $y = \frac{4x}{3}$
OI: $y = -4x$
OJ: $y = 5x$

14.



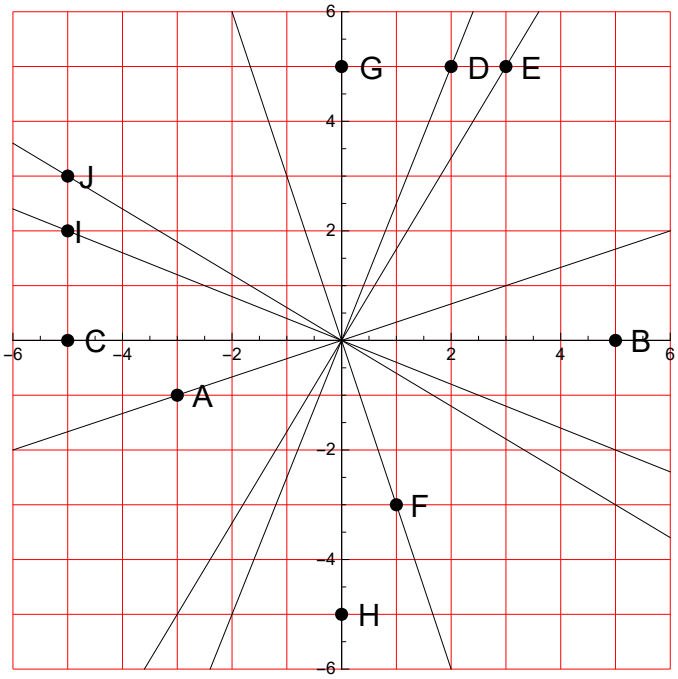
OA: $y = \frac{3x}{2}$
OB: $y = x$
OC: $y = 0$
OD: $y = -4x$
OE: $x = 0$
OF: $y = -\frac{2x}{3}$
OG: $y = -x$
OH: $x = 0$
OI: $y = \frac{x}{4}$
OJ: $y = 0$

15.



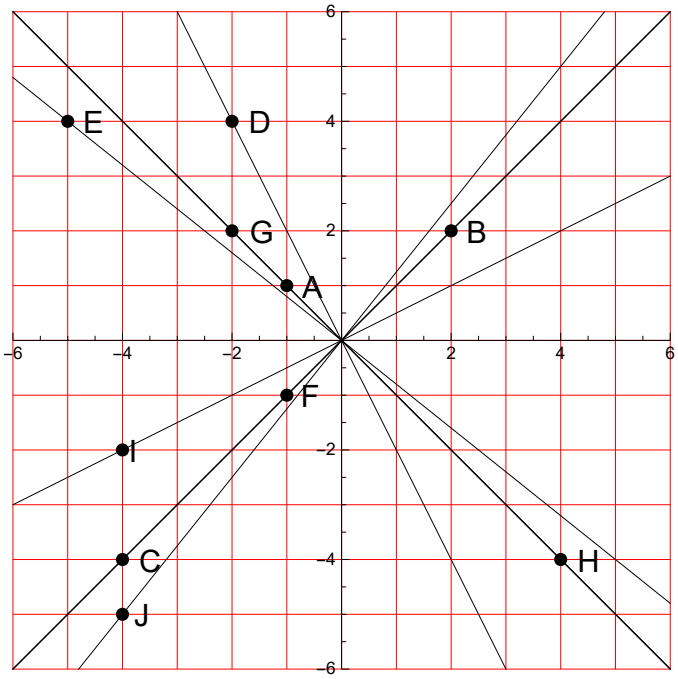
OA: $x = 0$
OB: $y = -x$
OC: $y = -2x$
OD: $y = x$
OE: $x = 0$
OF: $y = 0$
OG: $y = x$
OH: $y = \frac{x}{2}$
OI: $y = -x$
OJ: $y = 0$

16.



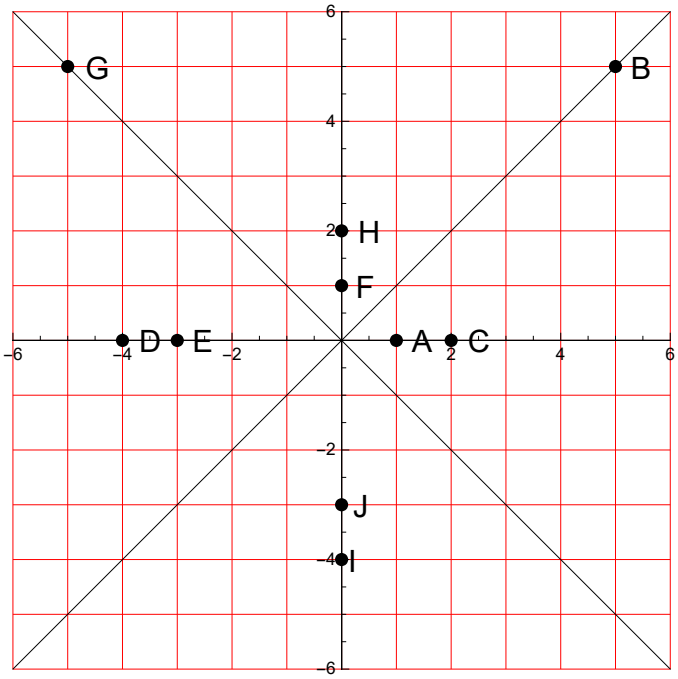
OA: $y = \frac{x}{3}$
OB: $y = 0$
OC: $y = 0$
OD: $y = \frac{5x}{2}$
OE: $y = \frac{5x}{3}$
OF: $y = -3x$
OG: $x = 0$
OH: $x = 0$
OI: $y = -\frac{2x}{5}$
OJ: $y = -\frac{3x}{5}$

17.



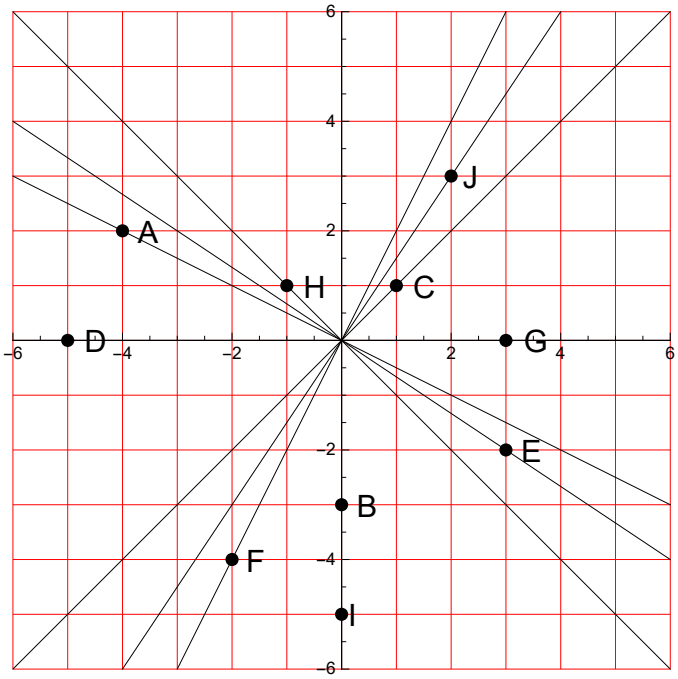
OA: $y = -x$
OB: $y = x$
OC: $y = x$
OD: $y = -2x$
OE: $y = -\frac{4x}{5}$
OF: $y = x$
OG: $y = -x$
OH: $y = -x$
OI: $y = \frac{x}{2}$
OJ: $y = \frac{5x}{4}$

18.



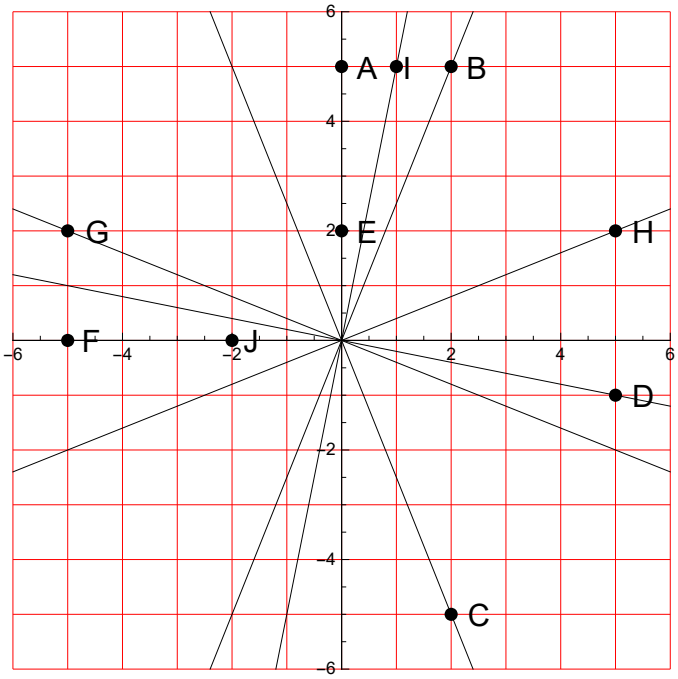
OA: $y = 0$
OB: $y = x$
OC: $y = 0$
OD: $y = 0$
OE: $y = 0$
OF: $x = 0$
OG: $y = -x$
OH: $x = 0$
OI: $x = 0$
OJ: $x = 0$

19.



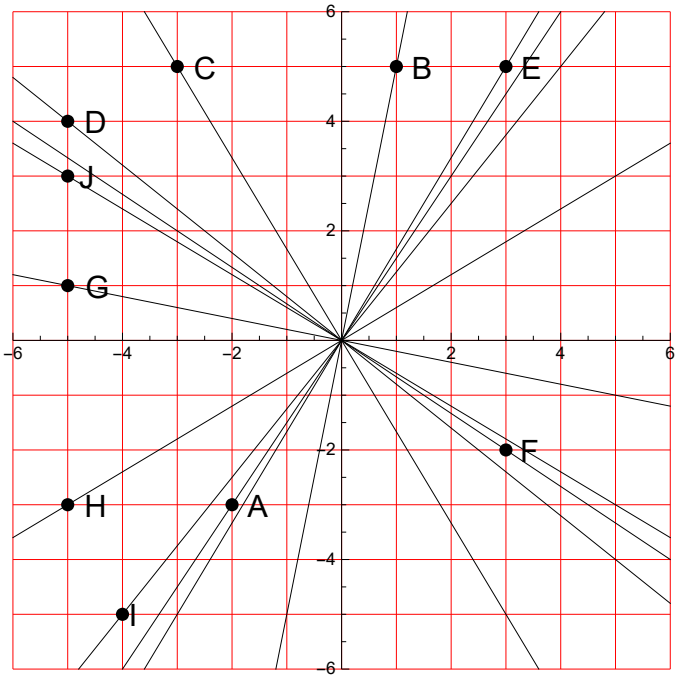
OA: $y = -\frac{x}{2}$
OB: $x = 0$
OC: $y = x$
OD: $y = 0$
OE: $y = -\frac{2x}{3}$
OF: $y = 2x$
OG: $y = 0$
OH: $y = -x$
OI: $x = 0$
OJ: $y = \frac{3x}{2}$

20.



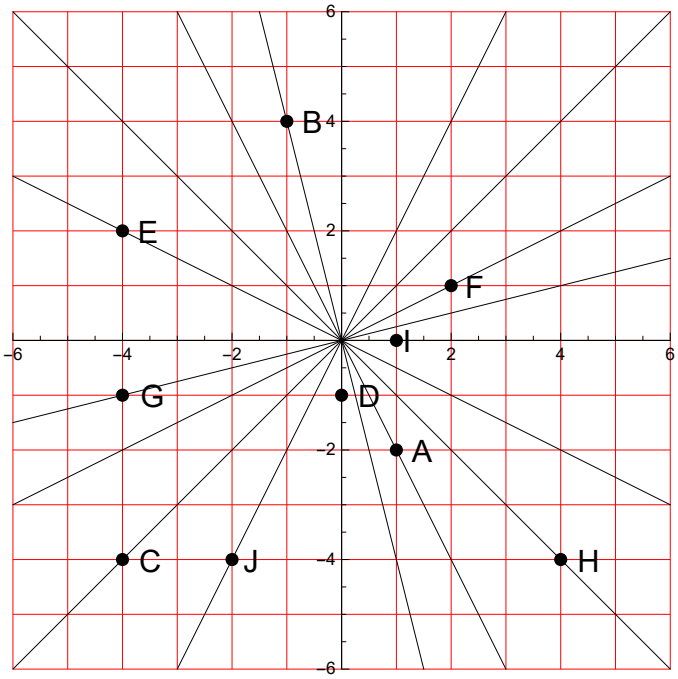
OA: $x = 0$
OB: $y = \frac{5x}{2}$
OC: $y = -\frac{5x}{2}$
OD: $y = -\frac{x}{5}$
OE: $x = 0$
OF: $y = 0$
OG: $y = -\frac{2x}{5}$
OH: $y = \frac{2x}{5}$
OI: $y = 5x$
OJ: $y = 0$

21.



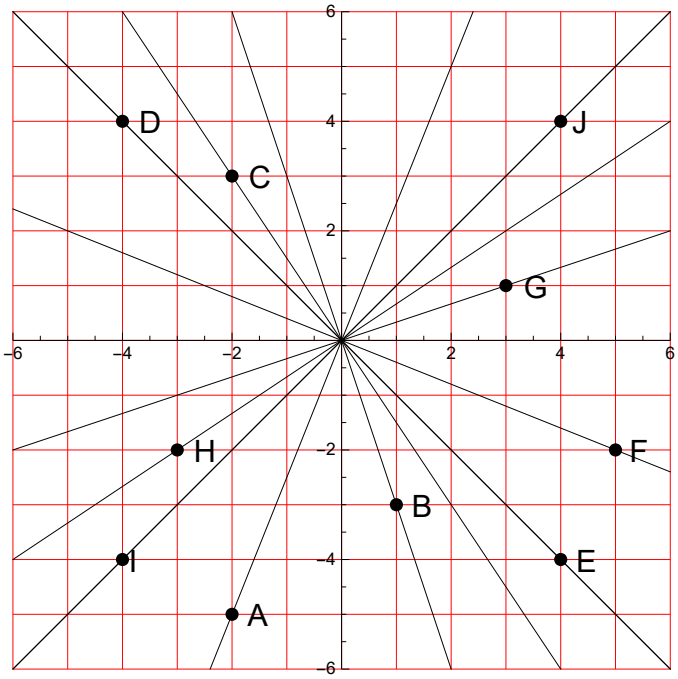
$OA: y = \frac{3x}{2}$
$OB: y = 5x$
$OC: y = -\frac{5x}{3}$
$OD: y = -\frac{4x}{5}$
$OE: y = \frac{5x}{3}$
$OF: y = -\frac{2x}{3}$
$OG: y = -\frac{x}{5}$
$OH: y = \frac{3x}{5}$
$OI: y = \frac{5x}{4}$
$OJ: y = -\frac{3x}{5}$

22.



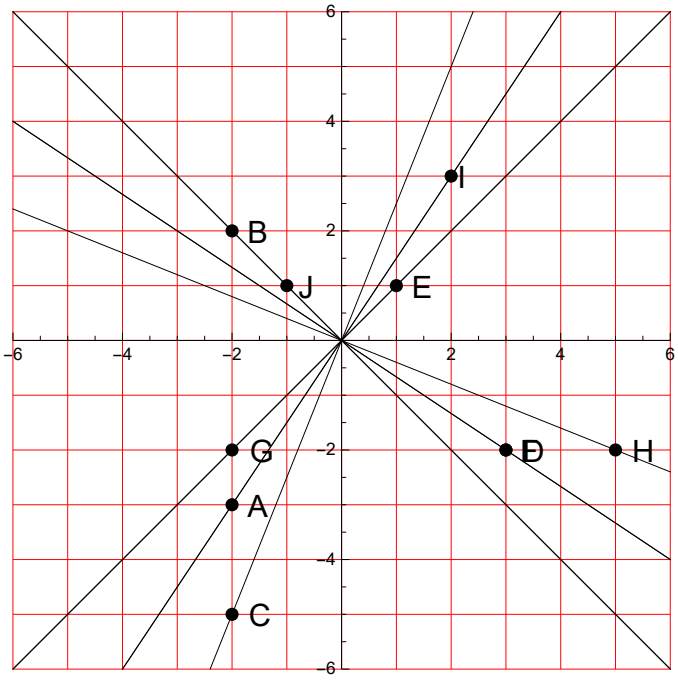
$OA: y = -2x$
$OB: y = -4x$
$OC: y = x$
$OD: x = 0$
$OE: y = -\frac{x}{2}$
$OF: y = \frac{x}{2}$
$OG: y = \frac{x}{4}$
$OH: y = -x$
$OI: y = 0$
$OJ: y = 2x$

23.



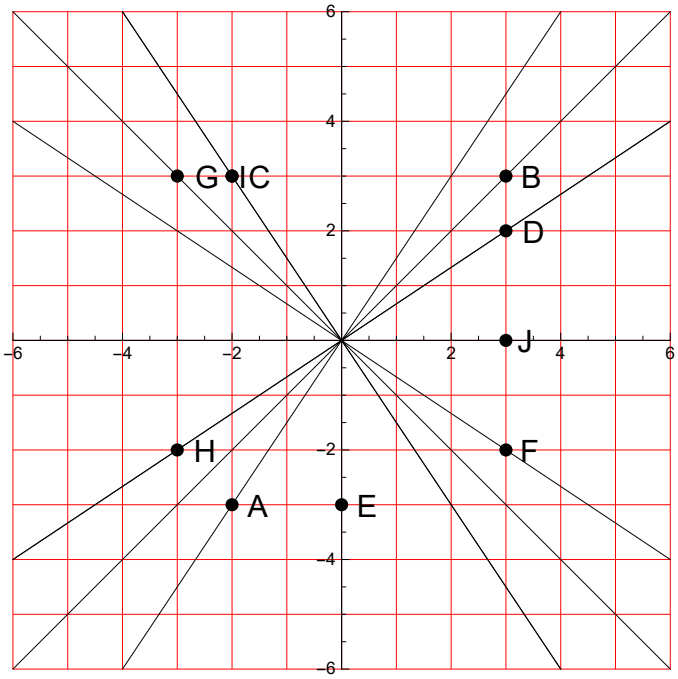
OA: $y = \frac{5x}{2}$
OB: $y = -3x$
OC: $y = -\frac{3x}{2}$
OD: $y = -x$
OE: $y = -x$
OF: $y = -\frac{2x}{5}$
OG: $y = \frac{x}{3}$
OH: $y = \frac{2x}{3}$
OI: $y = x$
OJ: $y = x$

24.



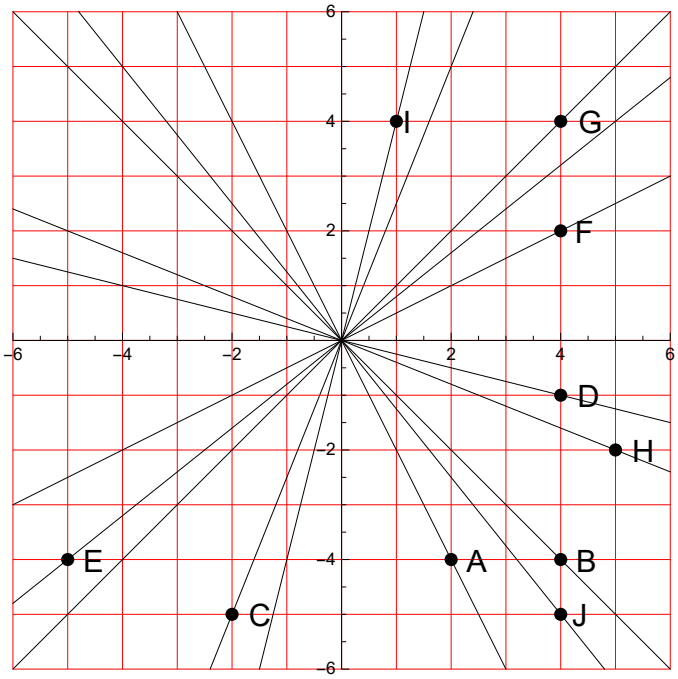
OA: $y = \frac{3x}{2}$
OB: $y = -x$
OC: $y = \frac{5x}{2}$
OD: $y = -\frac{2x}{3}$
OE: $y = x$
OF: $y = -\frac{2x}{3}$
OG: $y = x$
OH: $y = -\frac{2x}{5}$
OI: $y = \frac{3x}{2}$
OJ: $y = -x$

25.



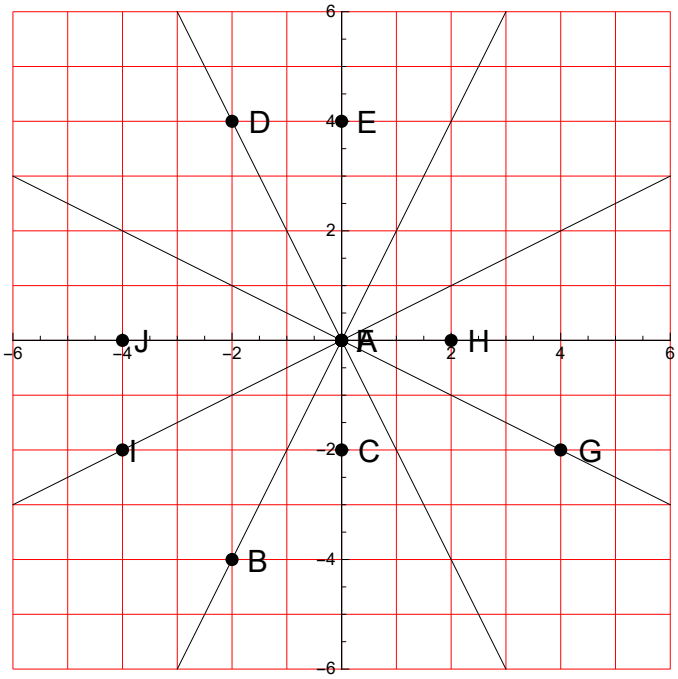
OA: $y = \frac{3x}{2}$
OB: $y = x$
OC: $y = -\frac{3x}{2}$
OD: $y = \frac{2x}{3}$
OE: $x = 0$
OF: $y = -\frac{2x}{3}$
OG: $y = -x$
OH: $y = \frac{2x}{3}$
OI: $y = -\frac{3x}{2}$
OJ: $y = 0$

26.



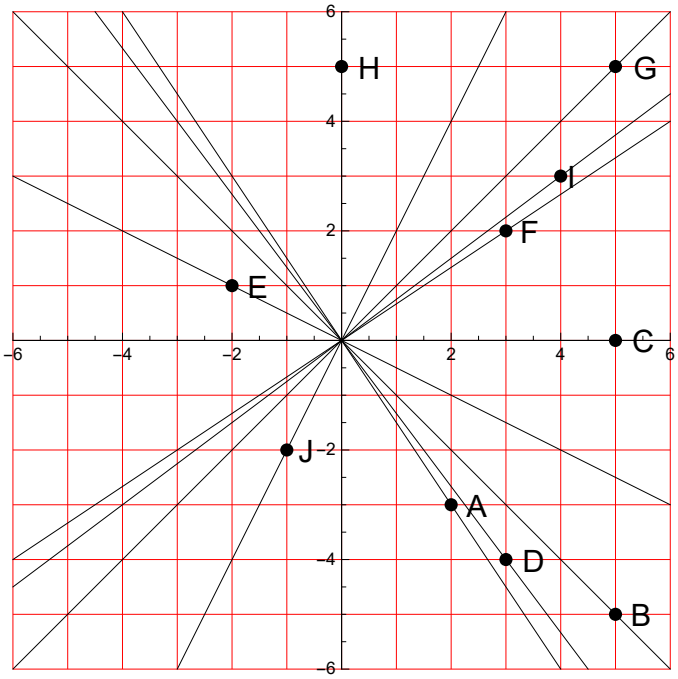
OA: $y = -2x$
OB: $y = -x$
OC: $y = \frac{5x}{2}$
OD: $y = -\frac{x}{4}$
OE: $y = \frac{4x}{5}$
OF: $y = \frac{x}{2}$
OG: $y = x$
OH: $y = -\frac{2x}{5}$
OI: $y = 4x$
OJ: $y = -\frac{5x}{4}$

27.



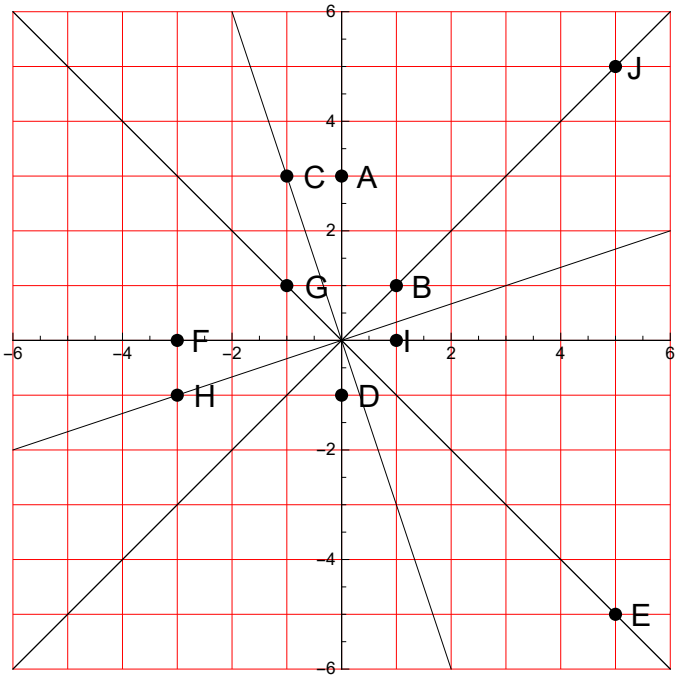
OA: $x = 0$
OB: $y = 2\,x$
OC: $x = 0$
OD: $y = -2\,x$
OE: $x = 0$
OF: $x = 0$
OG: $y = -\frac{x}{2}$
OH: $y = 0$
OI: $y = \frac{x}{2}$
OJ: $y = 0$

28.



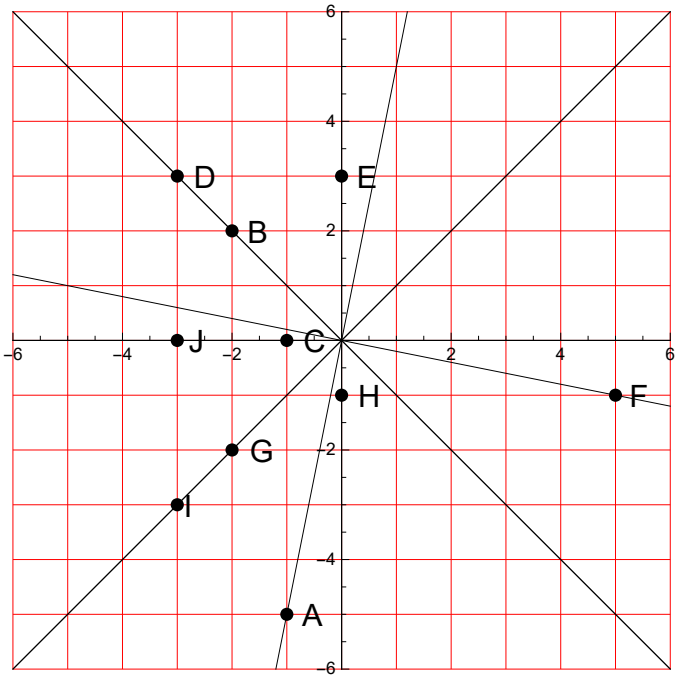
OA: $y = -\frac{3\,x}{2}$
OB: $y = -x$
OC: $y = 0$
OD: $y = -\frac{4\,x}{3}$
OE: $y = -\frac{x}{2}$
OF: $y = \frac{2\,x}{3}$
OG: $y = x$
OH: $x = 0$
OI: $y = \frac{3\,x}{4}$
OJ: $y = 2\,x$

29.



OA: $x = 0$
OB: $y = x$
OC: $y = -3\,x$
OD: $x = 0$
OE: $y = -x$
OF: $y = 0$
OG: $y = -x$
OH: $y = \frac{x}{3}$
OI: $y = 0$
OJ: $y = x$

30.



OA: $y = 5\,x$
OB: $y = -x$
OC: $y = 0$
OD: $y = -x$
OE: $x = 0$
OF: $y = -\frac{x}{5}$
OG: $y = x$
OH: $x = 0$
OI: $y = x$
OJ: $y = 0$