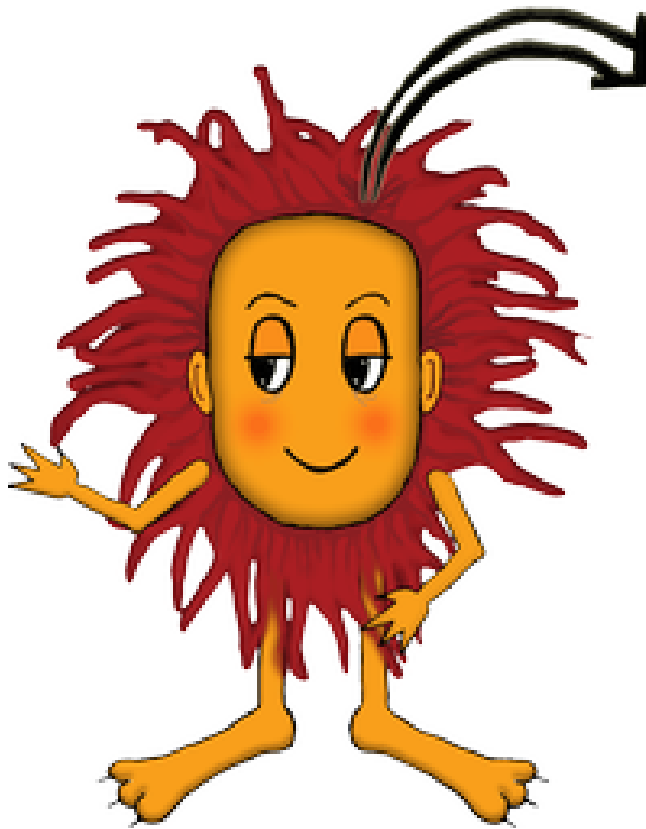


Velika logična pošast



Frobeniusovo enačba

Frobeniusova enačba je diofantske enačba

$$ax+by=c,$$

kjer sta a in b naravni števili in iščemo samo nenegativne rešitve.

Rešiti moramo dano enačbo.

1.

$$4x+12y=22$$

2.

$$4x+10y=35$$

3.

$$9x+4y=34$$

4.

$$13x+6y=29$$

5.

$$7x+2y=35$$

6.

$$11x+7y=27$$

7.

$$7x+3y=25$$

8.

$$9x+4y=23$$

9.

$$11x+3y=23$$

10.

$$8x+8y=33$$

11.

$$11x+4y=38$$

12.

$$10x+10y=26$$

13.

$$6x+10y=33$$

14.

$$8x+4y=29$$

15.

$$12x+12y=40$$

16.

$$8x+13y=29$$

17.

$$11x+5y=23$$

18.

$$11x+4y=38$$

19.

$$13x+14y=24$$

20.

$$3x+12y=36$$

21.

$$11x+11y=32$$

22.

$$12x+8y=29$$

23.

$$3x+7y=25$$

24.

$$4x+12y=29$$

25.

$$6x+11y=39$$

26.

$$4x+7y=33$$

27.

$$9x+13y=21$$

28.

$$7x+7y=37$$

29.

$$4x+14y=30$$

30.

$$7x+2y=35$$

31.

$$9x+12y=26$$

32.

$$6x+6y=30$$

33.

$$5x+10y=36$$

34.

$$7x+10y=39$$

35.

$$11x+2y=31$$

36.

$$12x+8y=32$$

37.

$$10x+4y=28$$

38.

$$7x+8y=30$$

39.

$$11x+12y=34$$

40.

$$13x+2y=26$$

41.

$$3x+2y=37$$

42.

$$9x+10y=25$$

43.

$$12x+8y=38$$

44.

$$10x+13y=34$$

45.

$$13x+6y=24$$

46.

$$5x+8y=20$$

47.

$$4x+8y=37$$

48.

$$12x+3y=28$$

49.

$$10x+9y=27$$

50.

$$7x+10y=37$$

Rešitve:

1.

 $\{\}$

2.

 $\{\}$

3.

 $\{\{2, 4\}\}$

4.

 $\{\}$

5.

 $\{\{1, 14\}, \{3, 7\}, \{5, 0\}\}$

6.

 $\{\}$

7.

 $\{\{1, 6\}\}$

8.

 $\{\}$

9.

 $\{\{1, 4\}\}$

10.

 $\{\}$

11.
{2, 4}

12.
{}

13.
{}

14.
{}

15.
{}

16.
{2, 1}

17.
{}

18.
{2, 4}

19.
{}

20.
{0, 3}, {4, 2}, {8, 1}, {12, 0}

21.
{}

22.
{}

23.
{6, 1}

24.
{}

25.
{1, 3}

26.
{3, 3}

27.
{}

28.
{}

29.
{4, 1}

30.
{1, 14}, {3, 7}, {5, 0}

31.
{}

32.
{{0, 5}, {1, 4}, {2, 3}, {3, 2}, {4, 1}, {5, 0}}

33.
{}

34.
{}

35.
{{1, 10}}

36.
{{0, 4}, {2, 1}}

37.
{{0, 7}, {2, 2}}

38.
{{2, 2}}

39.
{{2, 1}}

40.
{{0, 13}, {2, 0}}

41.
{{1, 17}, {3, 14}, {5, 11}, {7, 8}, {9, 5}, {11, 2}}

42.
{}

43.
{}

44.
{}

45.
{{0, 4}}

46.
{{4, 0}}

47.
{}

48.
{}

49.
{{0, 3}}

50.
{{1, 3}}