

Directions: Please state if the given lines (or slopes of lines) are:

1. Parallel
2. Perpendicular
3. Neither

Question 1

$$m=7$$

$$m=-1/7$$

Answer 1

$$m=7$$

$$m=-1/7$$

Perpendicular

Question 2

$$m = 2/3$$

$$m = 5/3$$

Answer 2

$$m=2/3 \quad m=5/3$$

Neither

Question 3

$$y = 3x + 4$$

$$y = 3x + 10$$

Answer 3

$$y = 3x + 4$$

$$y = 3x + 10$$

Parallel

Question 4

$$y = -\frac{3}{5}x + 4 \quad y + \frac{3}{5}x = 10$$

Answer 4

$$y = -\frac{3}{5}x + 4$$

$$y + \frac{3}{5}x = 10$$

$$y = -\frac{3}{5}x + 10$$

Parallel

Question 5

$$m = 2/3 \quad m = 2/3$$

Answer 5

$$m = \frac{2}{3} \quad m = \frac{2}{3}$$

Parallel

Question 6

$$y = \frac{4}{3}x + 4$$

$$y = -\frac{3}{4}x + 4$$

Answer 6

$$y = \frac{4}{3}x + 4$$

$$y = -\frac{3}{4}x + 4$$

Perpendicular

Question 7

$$y = 3x$$

$$2y = 6x + 10$$

Answer 7

$$y = 3x$$

$$2y = 6x + 10$$

$$y = 3x + 5$$

Parallel

Question 8

$$m = -2/5 \quad m = 2/5$$

Answer 8

$$m = -2/5 \quad m = 2/5$$

Neither

Question 9

$$m = 1/2$$

$$m = .5$$

Answer 9

$$m=1/2$$

$$m=.5$$

$$m=1/2$$

Parallel

Question 10

$$y - 5x = 4$$

$$y = 5x - 2$$

Answer 10

$$y - 5x = 4$$

$$y = 5x - 2$$

$$y = 5x + 4$$

Parallel

Question 11

$$y = x + 4$$

$$y = -x + 4$$

Answer 11

$$y = \frac{1}{1}x + 4$$

$$y = \frac{-1}{1}x + 4$$

Perpendicular

Question 12

$$m = 5/15 \quad m = 10/30$$

Answer 12

$$m=5/15 \quad m=10/30$$

$$m=1/3 \quad m=1/3$$

Parallel

Question 13

$$y = \frac{3}{5}x + 4$$

$$y = .6x - 5$$

Answer 13

$$y = \frac{3}{5}x + 4$$

$$y = .6x - 5$$

$$y = \frac{3}{5}x - 5$$

Parallel

Question 14

$$m = 0/3 \quad m = 2/0$$

Answer 14

$$m=0/3 \quad m=2/0$$

$$m=0 \quad m=\text{undefined}$$



Perpendicular

Question 15

$$y = \pi x + 4$$

$$y = \frac{-1}{\pi} x + 4$$

Answer 15

$$y = \pi x + 4$$

$$y = \frac{-1}{\pi} x + 4$$

Perpendicular

Question 16

$$m = -9/3$$

$$m = -3$$

Answer 16

$$m = -9/3$$

$$m = -3$$

$$m = -3$$

Parallel

Question 17

$$y = x$$

$$y = x + 6$$

Answer 17

$$y = 1x$$

$$y = 1x + 6$$

Parallel

Question 18

$$m = 2/5 \quad m = -5/2$$

Answer 18

$$m = 2/5 \quad m = -5/2$$

Perpendicular

Question 19

$$m = 4/6$$

$$m = -2/-3$$

Answer 19

$$m=4/6$$

$$m=-2/-3$$

$$m=2/3$$

$$m=2/3$$

Parallel