

2020 Summer Work

Date _____

Solve each equation.

1) $180 = 20x$

2) $x + 11 = 3$

3) $b + 1 = 16$

4) $-10 = \frac{x}{15}$

5) $-15 = v + 2$

6) $-1 = \frac{-10 + k}{-4}$

7) $-72 = -9(-10 + x)$

8) $3 = \frac{-3 + b}{-5}$

9) $45 = -3(x - 9)$

10) $109 = 10x + 9$

11) $7(-4x - 8) = -22 + 6x$

12) $-6(8x + 4) = 6x + 30$

13) $6 - (5 - 8n) = 27 - 5n$

14) $6 - 4(2a + 6) = a - 27$

15) $6 + 8n = 4n - 2(n - 6)$

Solve each proportion.

16) $\frac{3}{4} = \frac{2}{8r}$

17) $\frac{r}{3} = \frac{4}{9}$

$$18) \frac{10}{n} = \frac{5}{6}$$

$$19) \frac{8}{3} = \frac{5}{n}$$

$$20) \frac{7}{k+6} = \frac{2}{k}$$

$$21) \frac{p+4}{p} = \frac{3}{10}$$

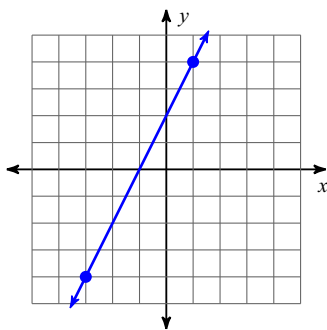
$$22) \frac{4}{5} = \frac{x+1}{x}$$

$$23) \frac{4}{2} = \frac{p-9}{p}$$

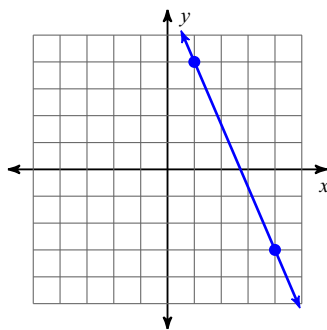
$$24) \frac{r+8}{8} = \frac{r}{6}$$

Find the slope of each line.

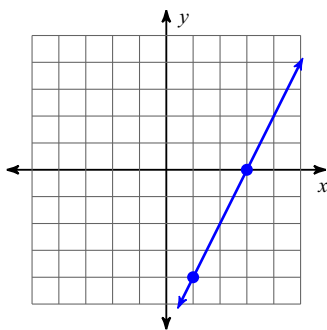
25)



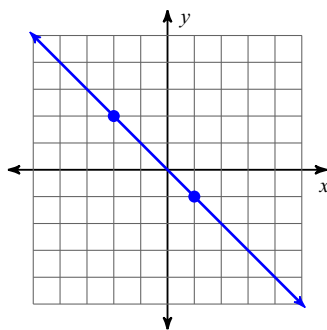
26)



27)



28)



Find the slope of the line through each pair of points.

29) $(15, -10), (-2, -10)$

30) $(-3, 6), (13, -1)$

31) $(-9, -2), (9, 20)$

32) $(-14, 18), (-6, -9)$

Find the slope of each line.

33) $y = -\frac{5}{3}x - 1$

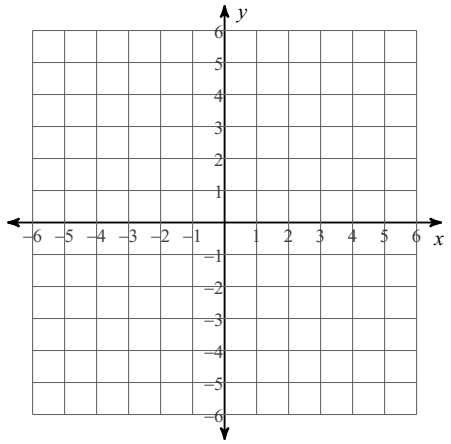
34) $y = -4x + 3$

35) $y = \frac{5}{4}x$

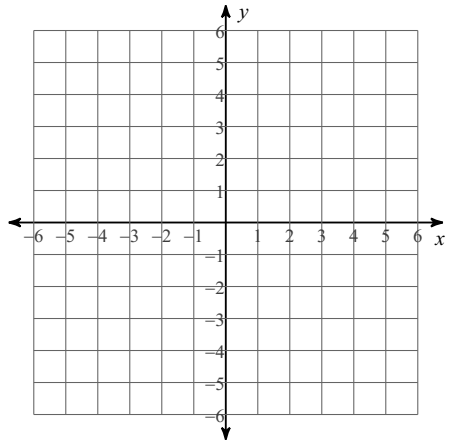
36) $y = x + 4$

Sketch the graph of each line.

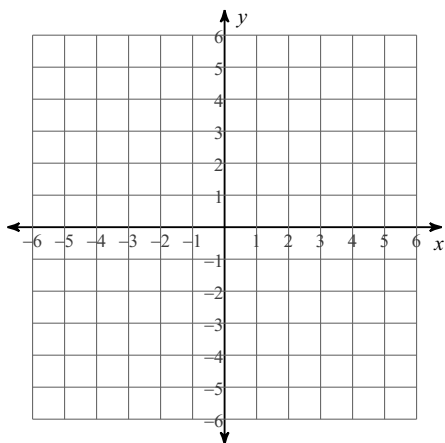
37) x -intercept = -5 , y -intercept = 5



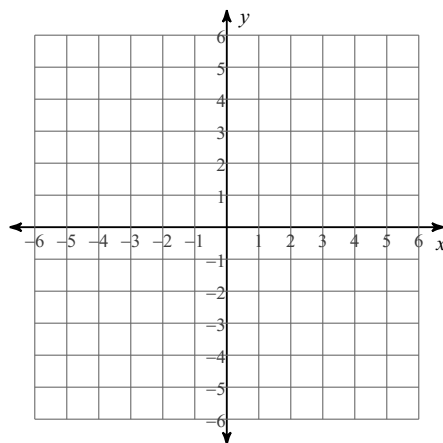
38) x -intercept = 3 , y -intercept = 2



39) x -intercept = 4, y -intercept = 4



40) x -intercept = -2, y -intercept = 1



Simplify. Do not give decimal answers!!!

41) $\sqrt{36}$

42) $\sqrt{32}$

43) $\sqrt{16}$

44) $\sqrt{45}$

45) $\sqrt{80}$

46) $\sqrt{30}$

47) $\sqrt{210}$

48) $\sqrt{180}$

49) $\sqrt{512}$

50) $\sqrt{320}$