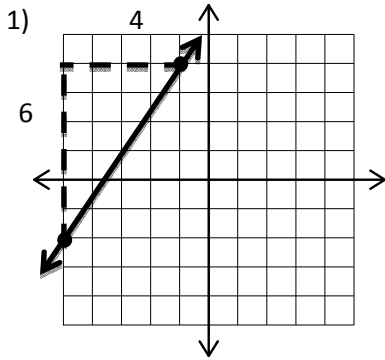
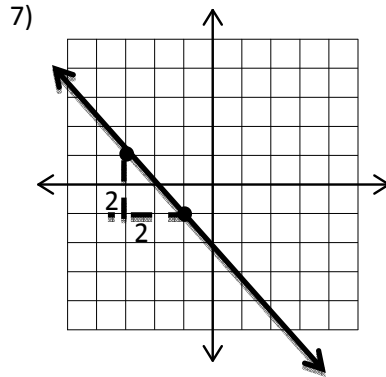


2.2



$$m = \frac{6}{4} = \frac{3}{2}$$

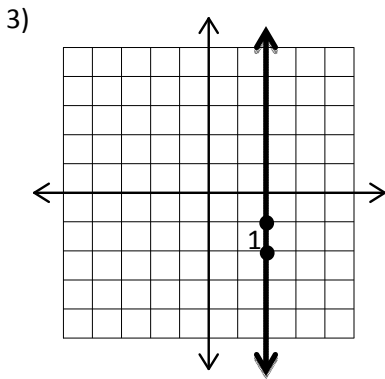


$$m = -\frac{2}{2} = -1$$

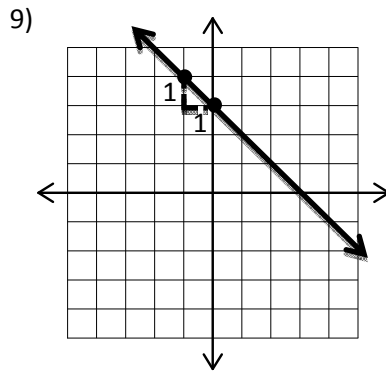
19)  $(-4, 14), (-16, 8)$   
 $m = \frac{8-14}{-16-(-4)} = \frac{-6}{-12} = \frac{1}{2}$

21)  $(12, -19), (6, 14)$   
 $m = \frac{14-(-19)}{6-12} = \frac{33}{-6} = \frac{11}{-2}$

23)  $(-5, -10), (-5, 20)$   
 $m = \frac{20-10}{-5-5} = \frac{30}{0} =$   
*undefined*



$$m = \frac{1}{0} = \text{undefined}$$

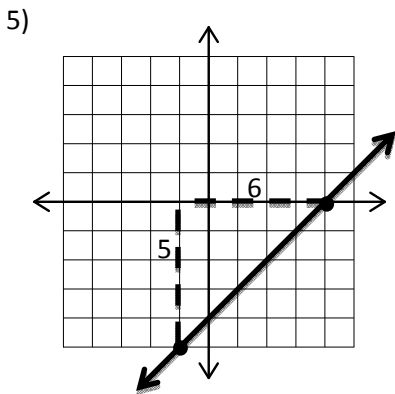


$$m = -\frac{1}{1} = -1$$

25)  $(-17, 19), (10, -7)$   
 $m = \frac{-7-19}{10-(-17)} = \frac{-26}{27}$

27)  $(7, -14), (-8, -9)$   
 $m = \frac{-9-(-14)}{-8-7} = \frac{5}{-15} =$   
 $-\frac{1}{3}$

29)  $(-5, 7), (-18, 14)$   
 $m = \frac{14-7}{-18-(-5)} = \frac{7}{-13}$



$$m = \frac{5}{6}$$

11)  $(-2, 10), (-2, -15)$   
 $m = \frac{-15-10}{-2-(-2)} = \frac{-25}{0} =$   
*undefined*

13)  $(-15, 10), (16, -7)$   
 $m = \frac{-7-10}{16-(-15)} = \frac{-17}{31}$

15)  $(10, 18), (-11, -10)$   
 $m = \frac{-10-18}{-11-10} = \frac{-28}{-21} =$   
 $\frac{4}{3}$

17)  $(-16, -14), (11, -14)$   
 $m = \frac{-14-(-14)}{11-(-16)} = \frac{0}{27} = 0$

31)  $(2, 6)$  and  $(x, 2)$ ; slope  $\frac{4}{7}$

$$\frac{4}{7} = \frac{2-6}{x-2}$$

$$\frac{(x-2)4}{1} = \frac{-4(x-2)}{x-2} \cdot \frac{1}{1}$$

$$\frac{4}{7}(x-2) = -4$$

$$(7)\left(\frac{4}{7}x - \frac{8}{7}\right) = -4(7)$$

$$4x - 8 = -28$$

$$\frac{+8}{4} \quad \frac{+8}{4}$$

$$\frac{4x}{4} = \frac{-20}{4}$$

$$x = -5$$

33)  $(-3, -2)$  and  $(x, 6)$ ; slope =  $-\frac{8}{5}$

$$\begin{aligned} -\frac{8}{5} &= \frac{6-(-2)}{x-(-3)} \\ (x+3)\frac{-8}{5} &= \frac{8}{x+3}(x+3) \\ -\frac{8}{5}(x+3) &= 8 \\ 5\left(-\frac{8}{5}x - \frac{24}{5}\right) &= 8(5) \\ -8x - 24 &= 40 \\ \underline{+24 \quad +24} & \\ -\frac{8x}{-8} &= \frac{64}{-8} \\ x &= -8 \end{aligned}$$

37)  $(x, -7)$  and  $(-9, -9)$ ; slope =  $\frac{2}{5}$

$$\begin{aligned} \frac{2}{5} &= \frac{-9-(-7)}{-9-x} \\ (-9-x)\frac{2}{5} &= \frac{-2}{-9-x}(-9-x) \\ \frac{2}{5}(-9-x) &= -2 \\ 5\left(-\frac{18}{5} - \frac{2}{5}x\right) &= (-2)5 \\ -18 - 2x &= -10 \\ \underline{+18 \quad \quad +18} & \\ \frac{-2x}{-2} &= \frac{8}{-2} \\ x &= -4 \end{aligned}$$

35)  $(-8, y)$  and  $(-1, 1)$ ; slope =  $\frac{6}{7}$

$$\begin{aligned} \frac{6}{7} &= \frac{1-y}{-1-(-8)} \\ (7)\frac{6}{7} &= \frac{1-y}{7}(7) \\ 6 &= 1-y \\ \underline{-1 \quad -1} & \\ \frac{5}{-1} &= \frac{-y}{-1} \\ -5 &= y \end{aligned}$$

39)  $(x, 5)$  and  $(8, 0)$ ; slope =  $-\frac{5}{6}$

$$\begin{aligned} -\frac{5}{6} &= \frac{0-5}{8-x} \\ (8-x) - \frac{5}{6} &= \frac{-5}{8-x}(8-x) \\ -\frac{5}{6}(8-x) &= -5 \\ 6\left(-\frac{20}{3} + \frac{5}{6}x\right) &= (-5)6 \\ -40 + 5x &= -30 \\ \underline{+40 \quad \quad +40} & \\ \frac{5x}{5} &= \frac{10}{5} \\ x &= 2 \end{aligned}$$