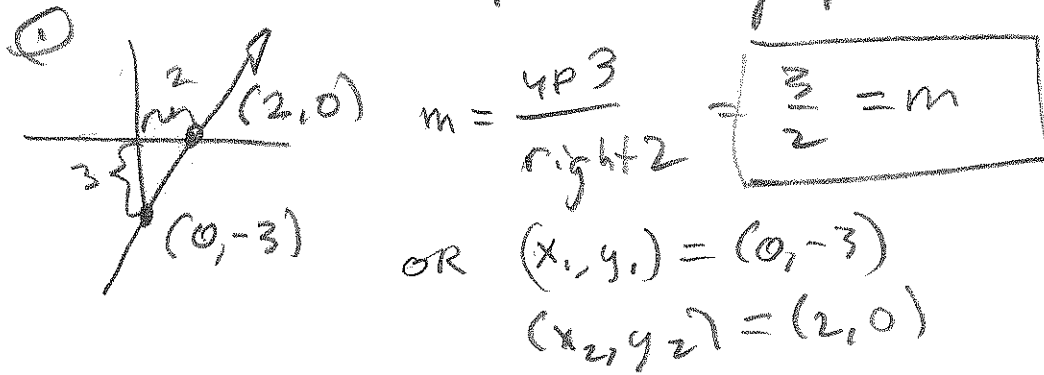
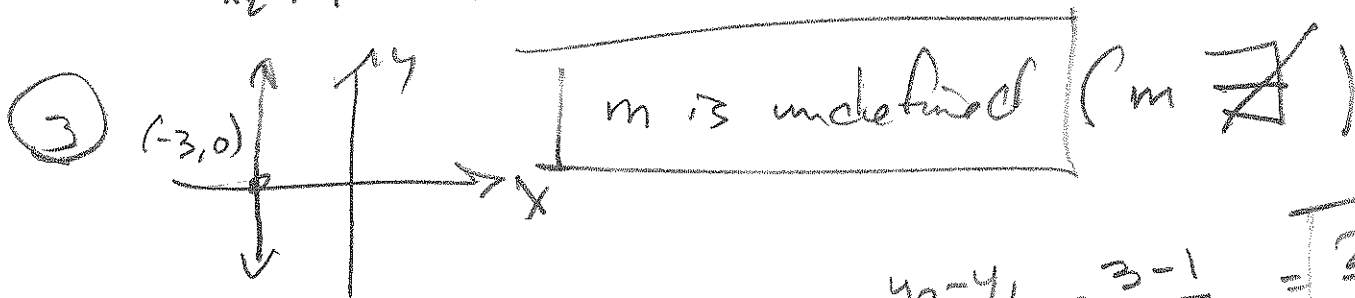


099 §3.2 #5 1-17, 21, 29, 30

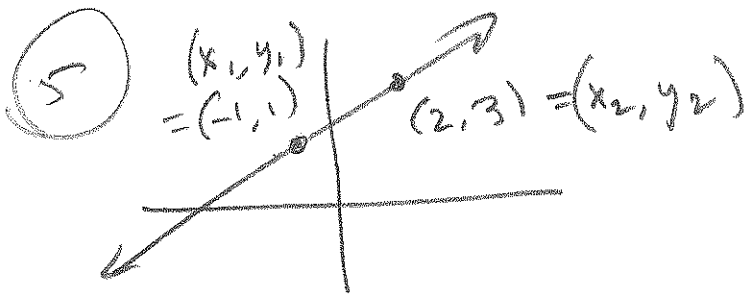
#1-6 Find slope from graph



$$m = \frac{y_2 - y_1}{x_2 - x_1} = \frac{0 - (-3)}{2 - 0} = \frac{3}{2}$$



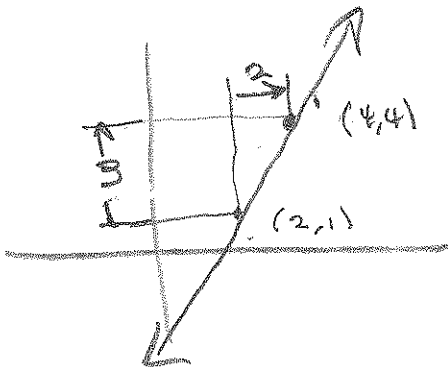
$$m = \frac{y_2 - y_1}{x_2 - x_1} = \frac{3 - 1}{2 - (-1)} = \boxed{\frac{2}{3} = m}$$



#5 7-20 Find slope. Sketch line. Indicate rise & run.

⑦  $(2, 1), (4, 4)$

$$m = \frac{y_2 - y_1}{x_2 - x_1} = \frac{4 - 1}{4 - 2} = \boxed{\frac{3}{2} = m}$$



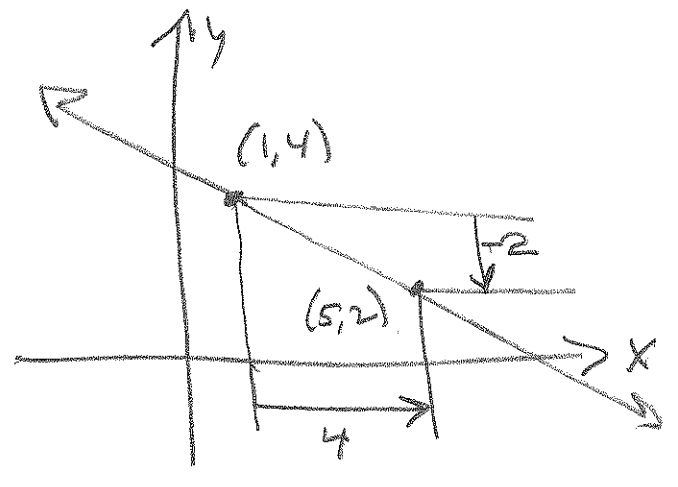
099 § 8.2 # 5 9-17, 21, 29, 30

9)  $(1, 4), (5, 2)$   
 $(x_1, y_1), (x_2, y_2)$

$$m = \frac{y_2 - y_1}{x_2 - x_1}$$

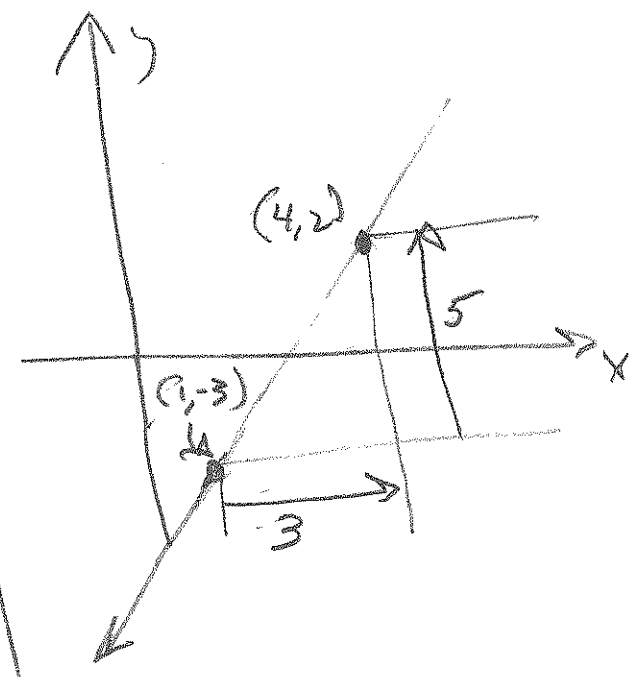
$$= \frac{2 - 4}{5 - 1} = -\frac{2}{4}$$

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



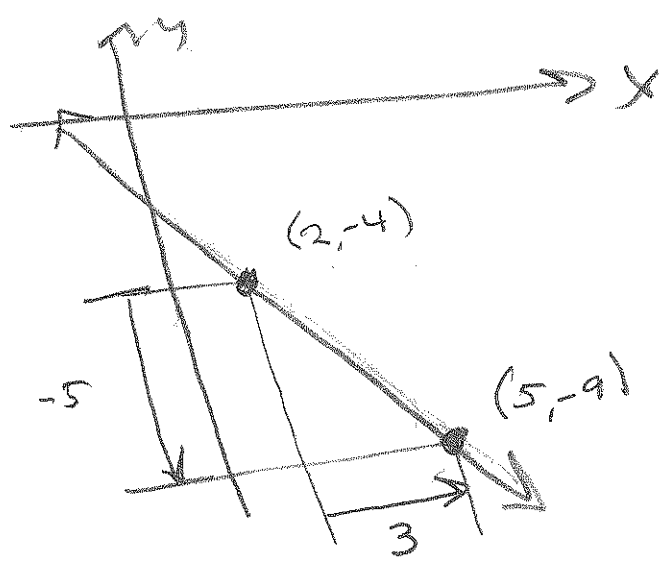
11)  $(1, -3) = (x_1, y_1)$   
 $(4, 2) = (x_2, y_2)$

$$m = \frac{y_2 - y_1}{x_2 - x_1} = \frac{2 - (-3)}{4 - 1} = \frac{5}{3}$$



13)  $(2, -4) \& (5, -9)$   
 $(x_1, y_1) \quad (x_2, y_2)$

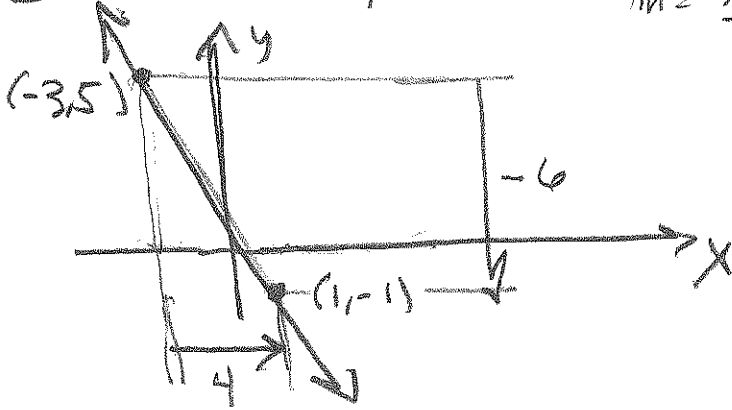
$$m = \frac{y_2 - y_1}{x_2 - x_1} = \frac{-9 - (-4)}{5 - 2} = -\frac{5}{3}$$



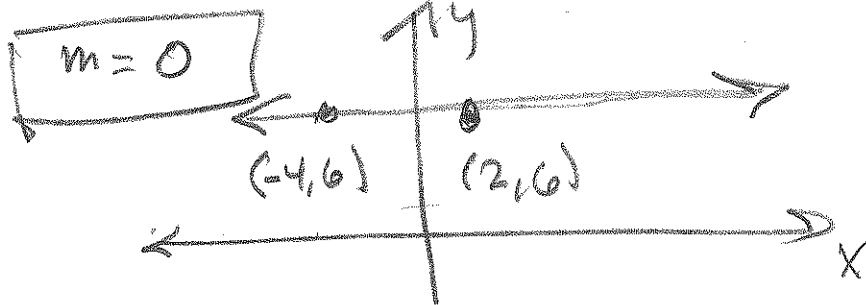
099  $\$ 3, 2 \# 15, 21, 29, 30$

(15)  $(-3, 5) \& (1, -1)$

$$m = \frac{y_2 - y_1}{x_2 - x_1} = \frac{-1 - 5}{1 - (-3)} = \frac{-6}{4} = -\frac{3}{2} = m$$



(17)  $(-4, 6) \& (2, 6)$  Aha!  $y=6$ !



(21) Solve for the indicated variable, if the line thru the two given points has the given slope.

$(2, 3) \& (2, 6) \& m = -1$

$$m = \frac{y_2 - y_1}{x_2 - x_1} = \frac{6 - 3}{2 - a} = \frac{3}{2 - a} = -1 \implies$$

$$\frac{3}{2 - a} = -1 \cdot \frac{2 - a}{2 - a} = \frac{-1(2 - a)}{2 - a} \implies$$

$$3 = -(2 - a) = -2 + a = a - 2 = 3 \implies$$

$$a = 5$$

099 §3.2 #s 29, 30

#s 29-32 Complete the table & use the results to find the slope of the graph of the equation.

(29)

x	y
0	0
3	2

x	y
0	2
3	0

$$2x + 3y = 6$$

$$3y = 6$$

$$y = 2$$

$$2x = 6$$

$$x = 3$$

$$m = \frac{y_2 - y_1}{x_2 - x_1} = \frac{0 - 2}{3 - 0} = \boxed{-\frac{2}{3} = m}$$

(30)

$$3x - 2y = 6$$

x	y
0	0
0	-3
2	0

$$-2y = 6$$

$$y = -\frac{6}{2} = -3$$

$$3x = 6$$

$$x = 2$$

$$m = \frac{y_2 - y_1}{x_2 - x_1} = \frac{0 - (-3)}{2 - 0} = \boxed{\frac{3}{2} = m}$$