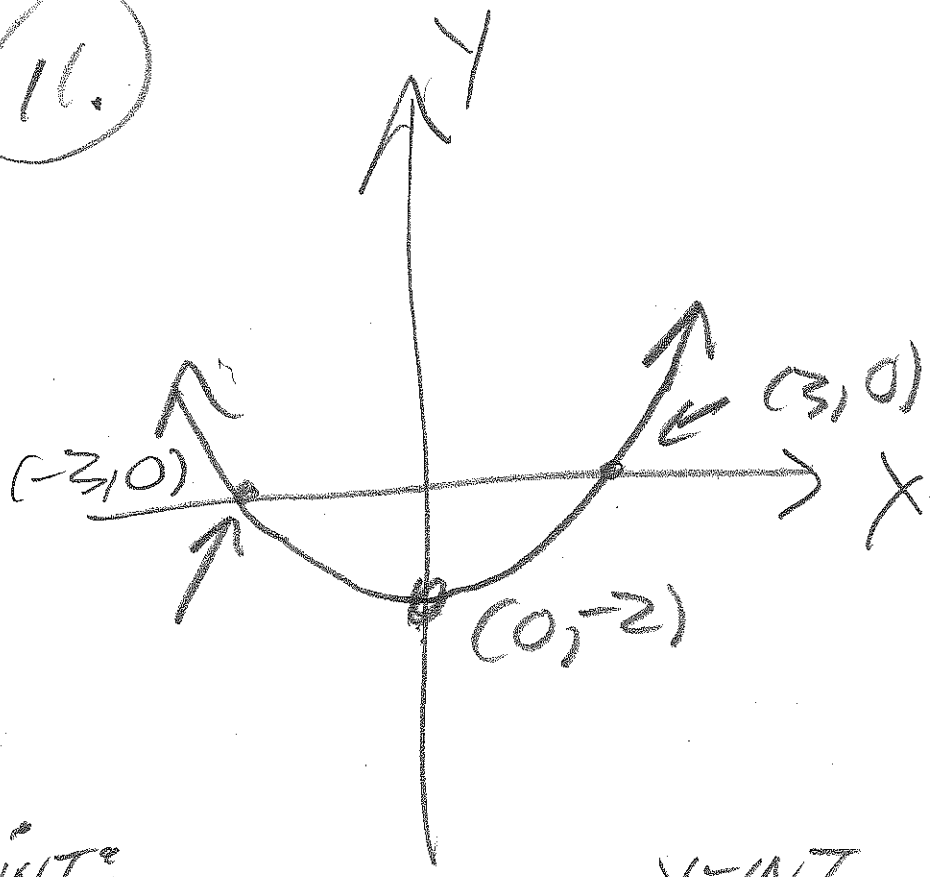
3.3 10-9-13

ex		prob
1	→	11, 9
2	→	25, 27
3	→	39
4	→	45
5	→	53
6	→	55
7	→	71, 73

Ex 3

FIND: x-intercept
y-intercept

(11.)



X-INT:

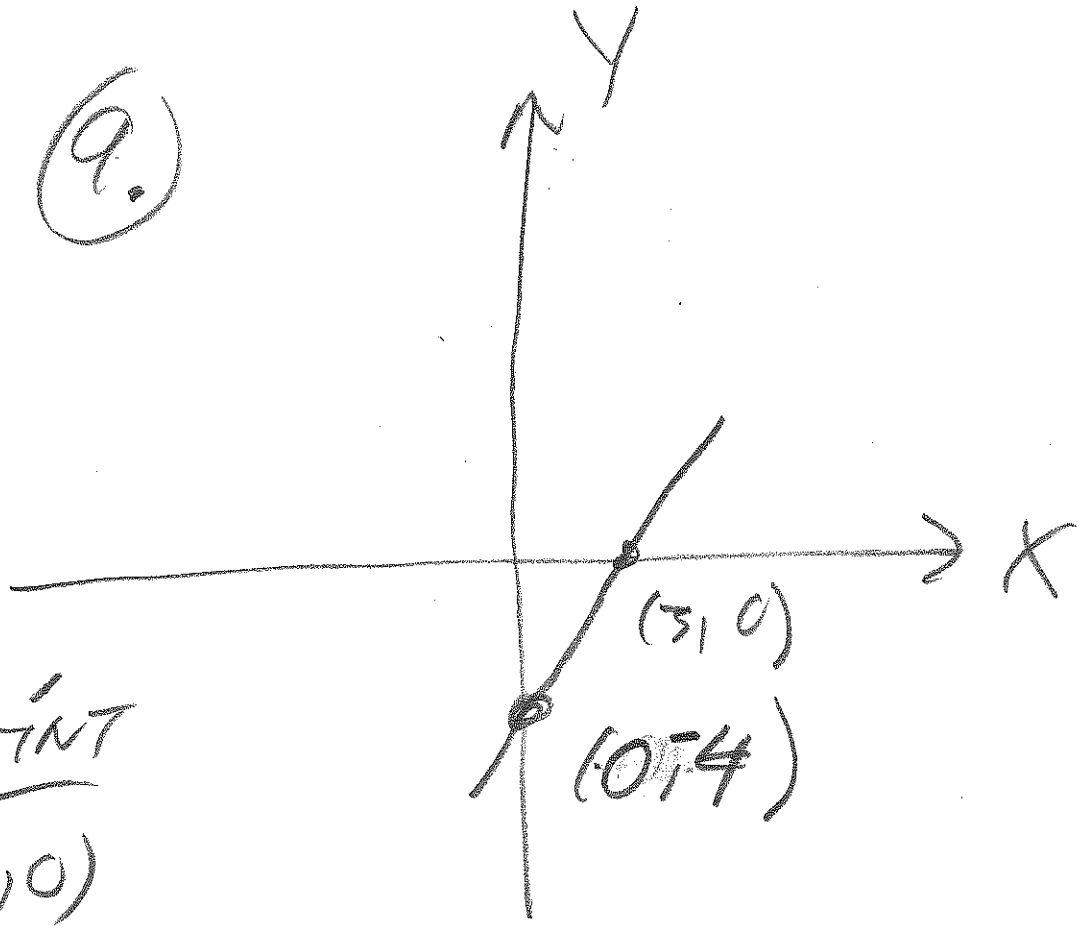
(-3,0)
(3,0)

Y-INT

(0,-2)

(2

(9.



X-INT

(3, 0)

Y-INT

(0, -4)

(25) $3x + 5y = 15$

X-INT set $y = 0$

(5, 0) $3 \cdot x + 5 \cdot 0 = 15$

$3x = 15$

$x = 5$

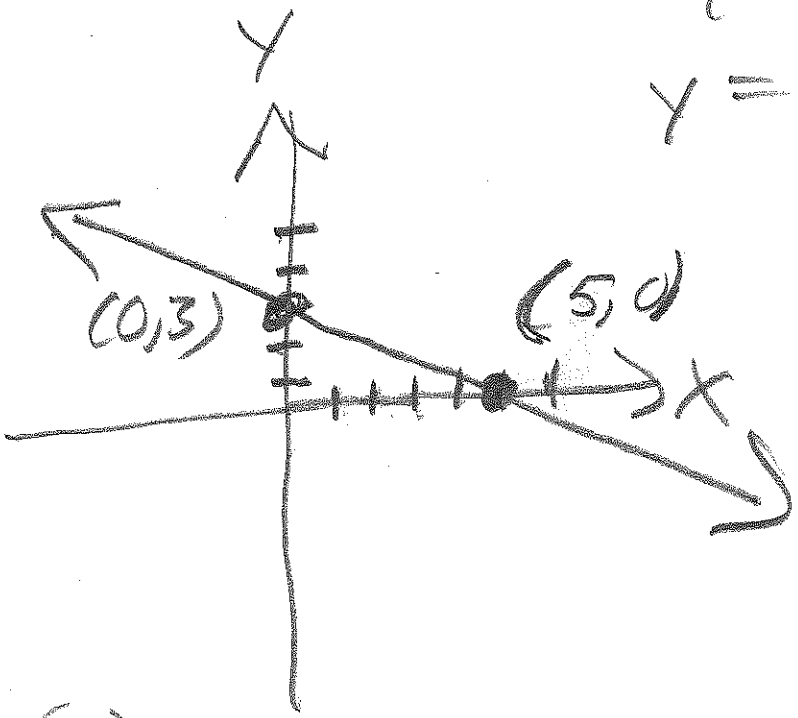
(25)

Y-INT : $x = 0$

(93) $3 \cdot 0 + 5y = 15$

$5y = 15$

$y = 3$



(27.) $x + 2y = 4$

X-INT (4,0)

$x + 2 \cdot 0 = 4$

$x = 4$

Y-INT (0,2)

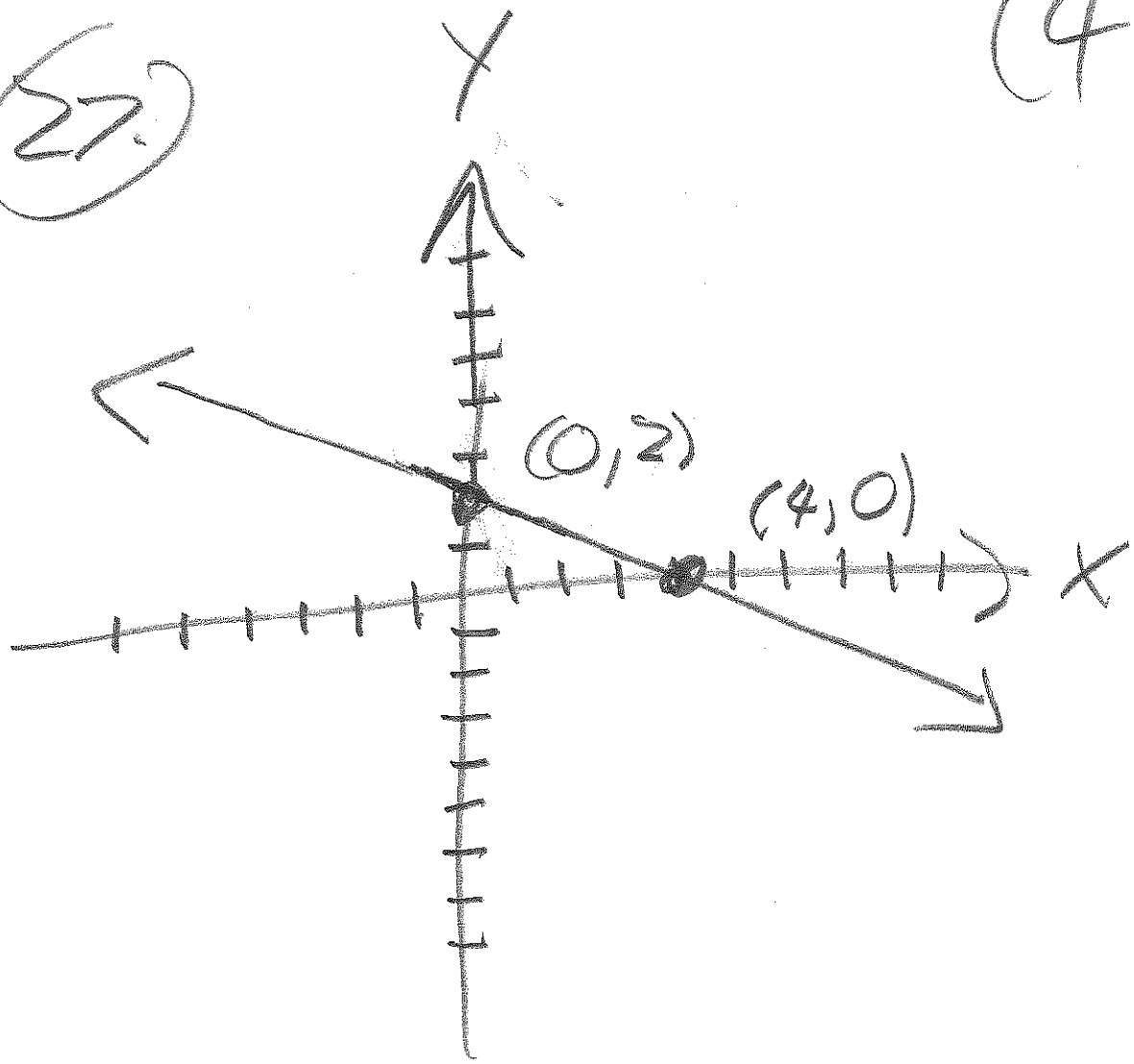
$0 + 2y = 4$

$2y = 4$

$y = 2$

(4

(37.)



(38.) $6x + 2y = 12$

x-INT

(2,0)

$6x + 0 = 12$

$6x = 12$

$x = 2$

y-INT

(0,6)

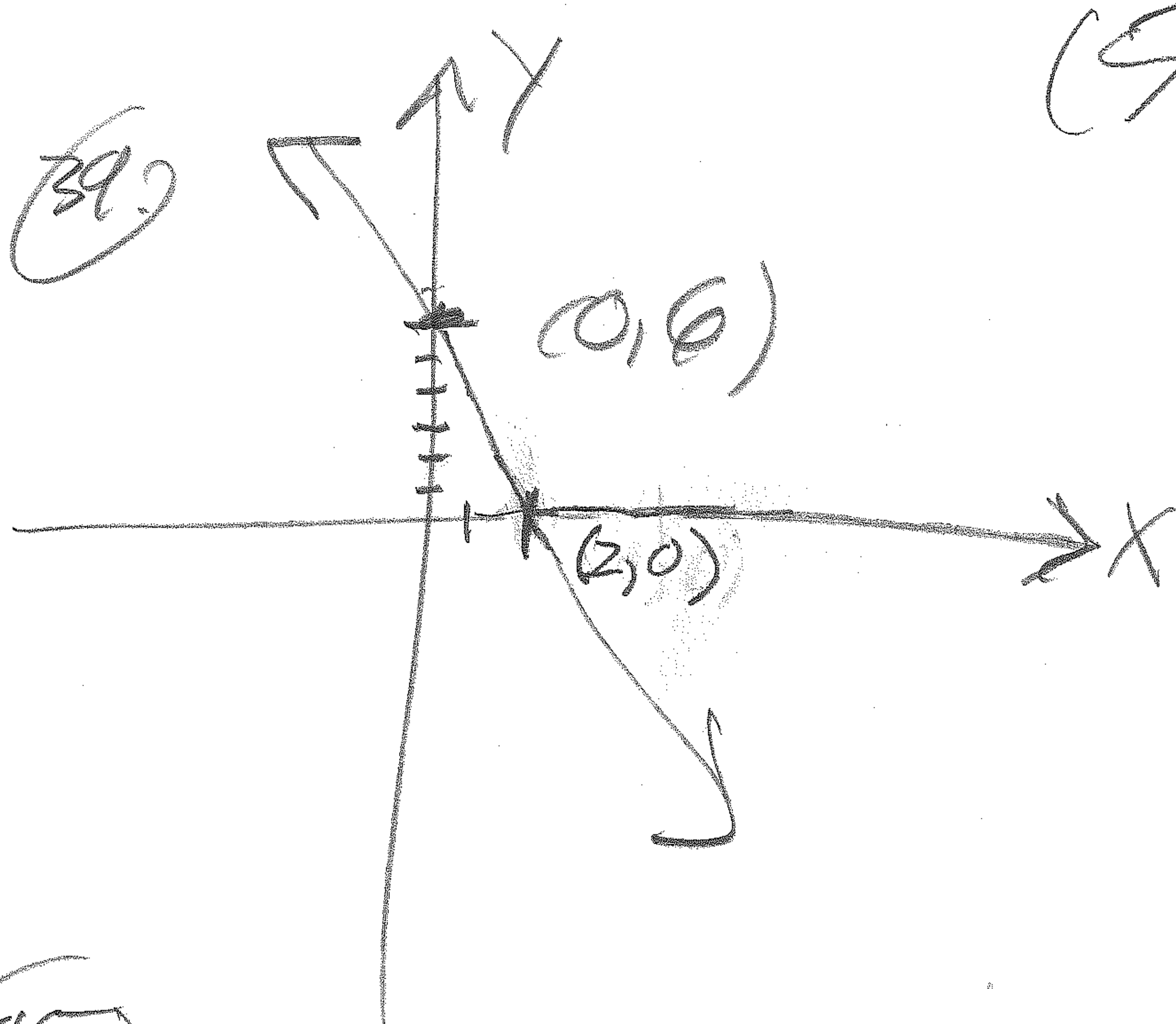
$0 + 2y = 12$

$2y = 12$

$y = 6$

(5

39.



45.

$5x - 3y = 180$

X-INT

$5x = 180$

$x = 36$

$5\overline{)180}$ = 36, -15, 30

(36,0)

Y-INT

$-3y = 180$

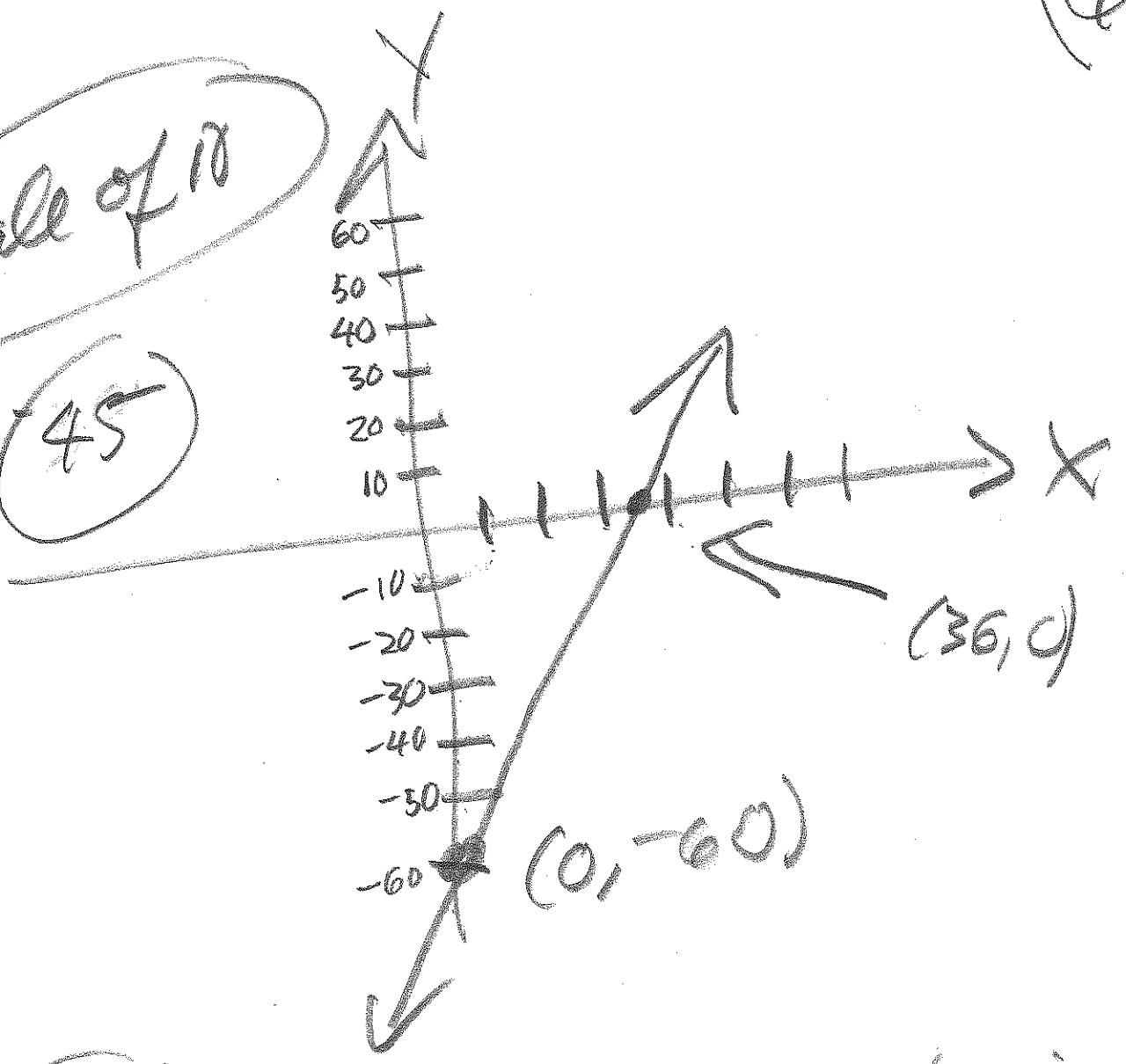
$y = -60$

$3\overline{)180}$ = 60, -18, 0

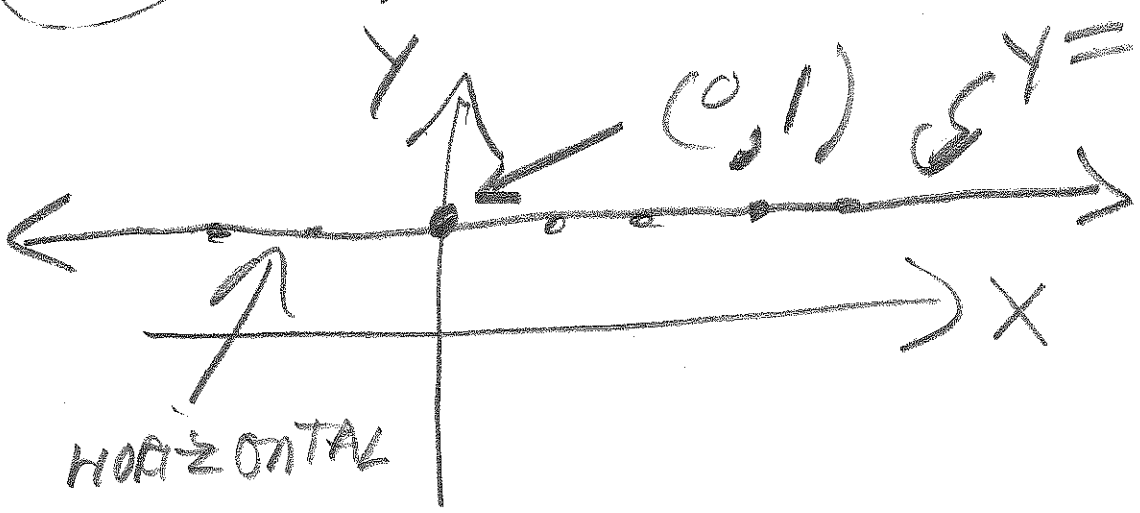
(0,-60)

Scale of 10

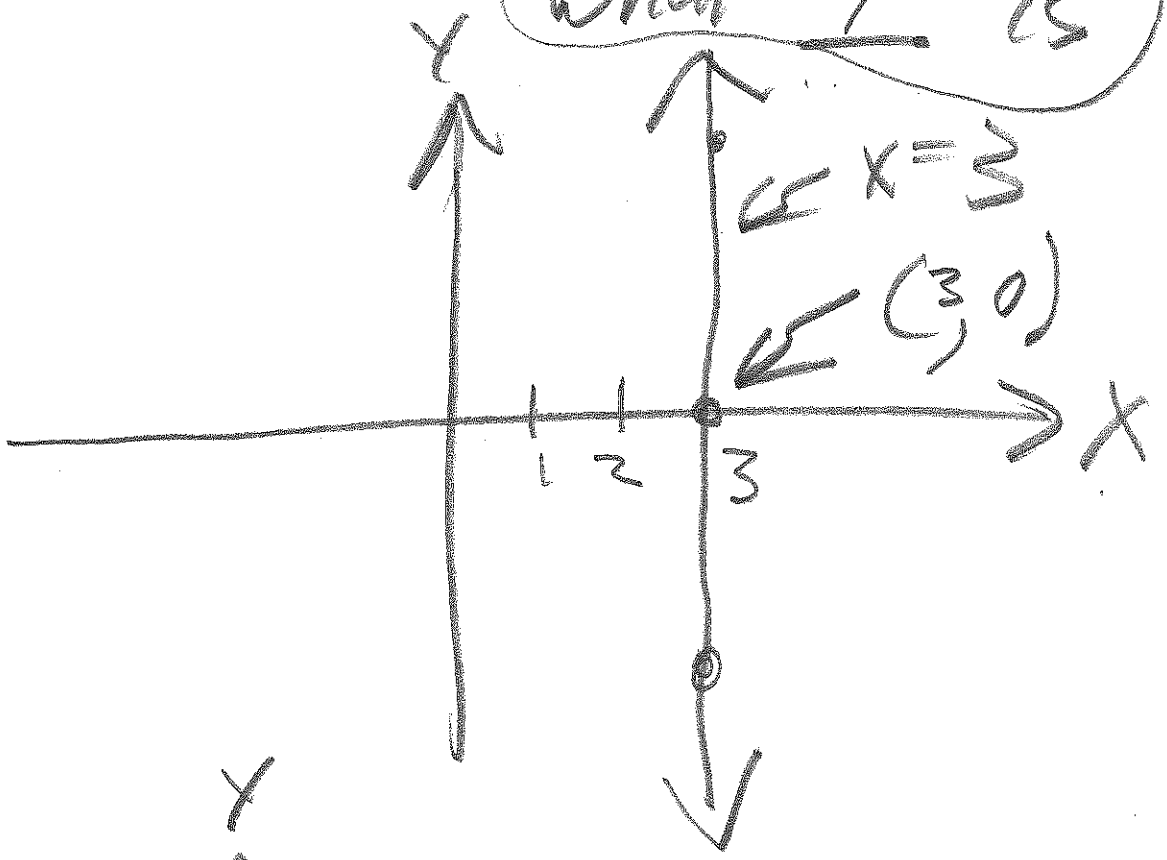
(45)



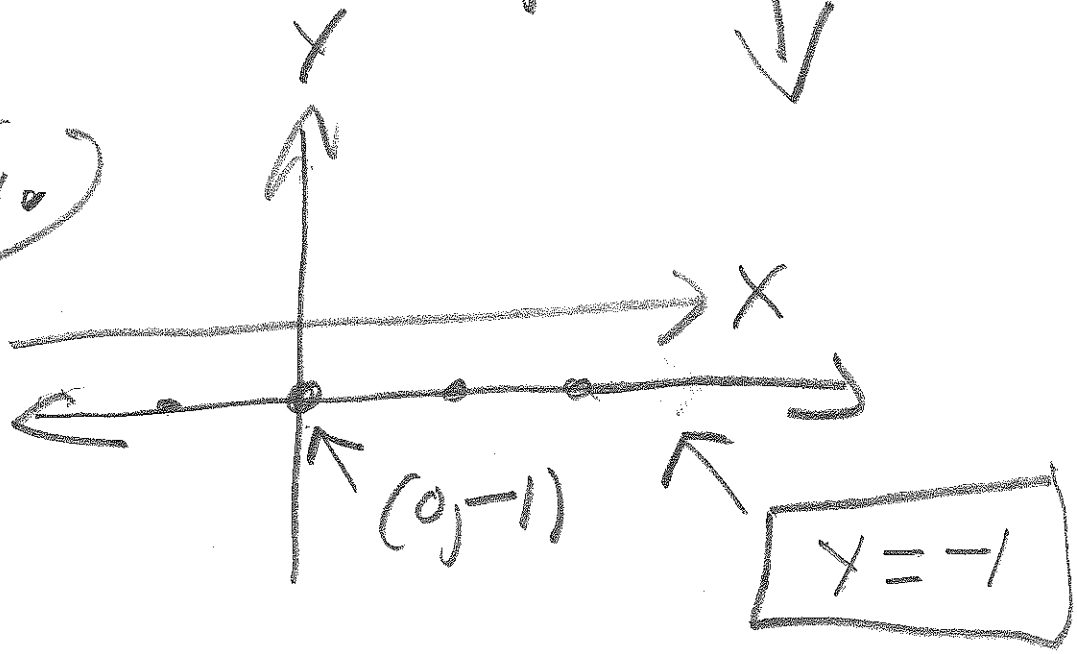
(53.) $y = 1$ no matter what x is.



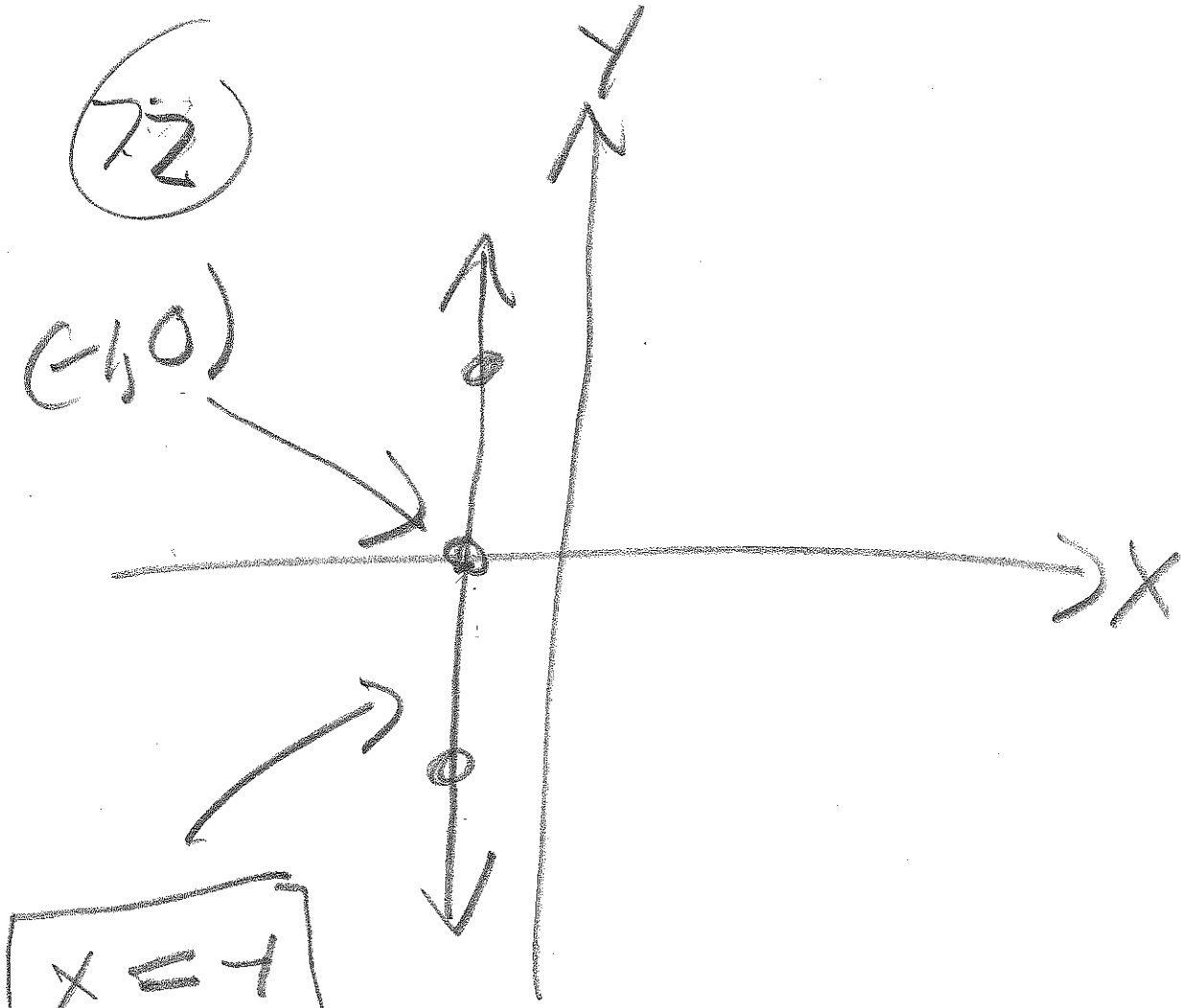
(55) $x = 3$ no matter what y is



(10)

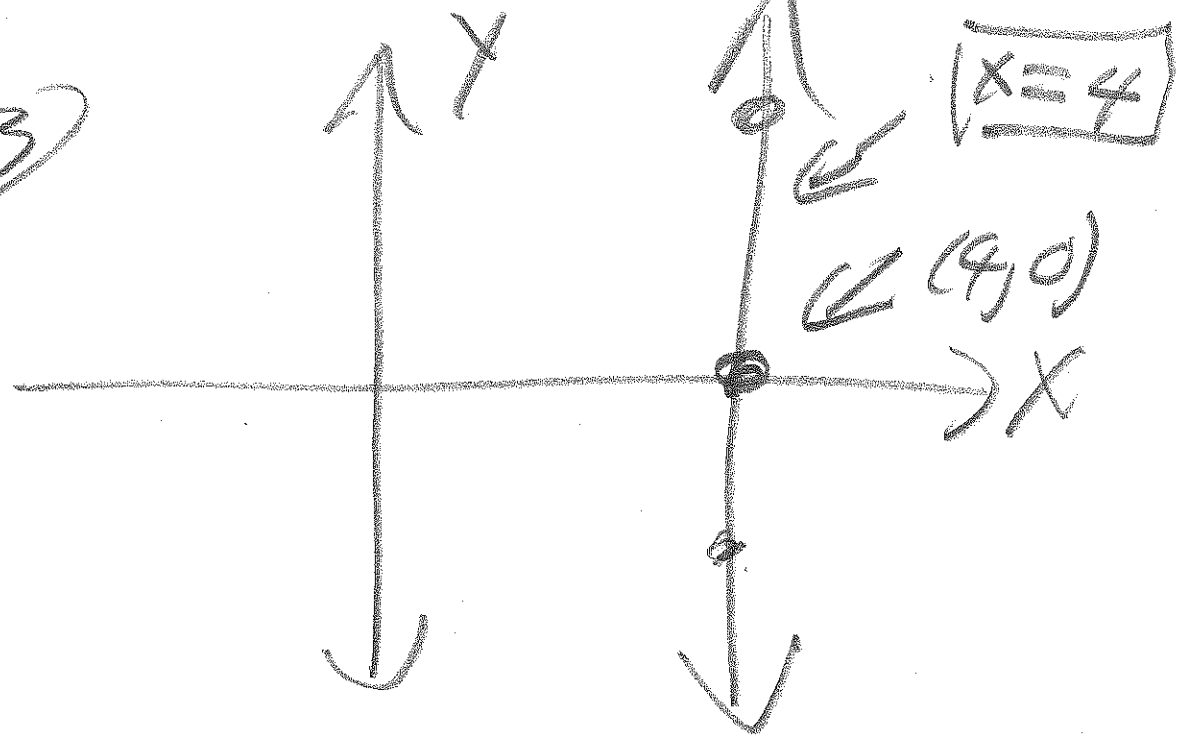


(2)



$x = -1$

(3)



$x = 9$

3.4

Ex

proof

1 → 7

2 → 9

3 → 29

(7) 14,131 − 13,741 = 390 mi ✓

$118 ✓

13 gal ✓

(a) $\frac{\text{mi}}{\text{gal}}$: $\frac{390\text{ mi}}{13\text{ gal}} = 30\frac{\text{mi}}{\text{gal}}$

$13\overline{)390}$ → 39 ✓

(b) $\frac{\$}{\text{day}} : \frac{\$118}{3\text{ day}} = \boxed{39.33\frac{\$}{\text{day}}}$

(10

(b.)

$$3\overline{)118.00} = 39.33\overline{3}\ \$/\text{day}$$

$$\begin{array}{r} 39.33\ldots \\ 3\overline{)118.00} \\ -9 \\ \hline 28 \\ -27 \\ \hline 10 \\ 9 \\ \hline 10 \\ \vdots \end{array}$$

(c.)

$$\frac{\text{mi}}{\text{day}} : \frac{390\ \text{mi}}{3\ \text{day}} = 130\ \frac{\text{mi}}{\text{day}}$$

(d)

$$\frac{¢}{\text{mi}} : \frac{11800\ ¢}{390\ \text{mi}} = 30.3\ \frac{¢}{\text{mi}}$$

$$\begin{array}{r} 30.25 \\ 390\overline{)11800.0} \\ 1170 \\ \hline 1000 \\ -780 \\ \hline 2200 \end{array}$$

2.4

(a) mi : 14 mi

hr : 2 hr

$: $15

(a) $\frac{mi}{hr} : \frac{14\,mi}{2\,hr} = 7\frac{mi}{hr}$

(b) $\frac{\$}{hr} : \frac{\$15}{2\,hr} = 7.5\frac{\$}{hr}$

(c) $\frac{\$}{mi} : \frac{\$15}{14\,mi}$

$$14\overline{)15.00} = 1.07 = \frac{1.0\$}{mi}$$

-14

100

98

QUIZ 5
SEC. 3.1.
1. PLOT EACH POINT: (2,1), (3, -2), (-1, 4), (-3, -5), (0, 4), (-2, 0) GRAPH PAPER
2. DO # 28: FIND THE COORDINATES OF A, B, C D AND E. NO GRAPH PAPER
SEC. 3.2.
3. DETERMINE IF (0, 8) is a solution to y = 5x + 8 NO GRAPH PAPER
4. DETERMINE IF (1, -2) is a solution to 3y – 2x = -8. NO " "
5. DETERMINE IF EACH PAIR IS A SOLUTION OF THE EQUATION. Then graph the two pairs to determine another solution. y = x – 2 ; (3, 1), (-2, -4) GRAPH PAPER
BELOW, MAKE A TABLE FOR EACH PROBLEM.
6. GRAPH: y = x – 1.
7. GRAPH: y = 2x – 3.
8. GRAPH: x + 2y = 8 Hint: Set y = 0 and find x. Then set x = 0 and find y.
9. GRAPH: 2x = 5y by first solving for y.
10. GRAPH: 8x – 4y = 12 by first solving for y.
11. GRAPH: 4x – 2y = 8 by first solving for y.
12. GRAPH: x + 5y = 10 by first solving for y. (See example 7)

#13 → 5

↑ SEC. 3.2

GRAPH PAPER (3 points)

Show work for each problem on white paper