

Pg. 7

17.)

 $(0, 0)$

$$10x + 5y = 0$$

$$10(0) + 5y = 0$$

$$5y = 0$$

$$y = 0$$

 $(0, 0)$

$$10x + 5(0) = 0$$

$$\frac{10x}{10} = \frac{0}{10}$$

$$x = 0$$

$$10x = -5y$$

$$10(0) = -5y$$

$$\frac{0}{-5} = \frac{-5y}{-5}$$

$$0 = y$$

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

$$-2x = 1y$$

$$1y + 2x = 0$$

17.)

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

$$0 + -2x = y$$

$$y = -2x + 0$$

$$y = mx + b$$



14.)

x
-1
0
1

$$5.) \quad x - y = -1$$

$$\frac{-1 - y = -1}{+1 \quad +1}$$

$$-y = 0$$

$$y = -0$$

x	y
-1	0
-0	

~~$$-y = -1$$

$$y = 1$$~~

$$y = 1$$

3-2 Solving Linear Equations by Graphing

Standard Form

$$Ax + By = C$$

Solve for intercepts

- let $x = 0$ then solve for y . $(0, _)$
- let $y = 0$ then solve for x . $(_, 0)$

Root = solution

linear has one root

$$0 = \frac{1}{3}x - 2$$

$$\frac{3}{1} \cdot 2 = \frac{3}{1} \cdot \frac{1}{3}x$$

$$6 = x$$

$$(6, 0)$$

$$3x + \cancel{1} = \cancel{-2} - 2$$

$$3x + 3 = 0$$

x	y
-1	0
0	6
1	9

Zero

the zero is the x value when
 $y=0$.

Zero

$$0 = \frac{2}{5}x + \frac{16}{5}$$
$$\frac{5}{5} \cdot \frac{-3}{-6} = \frac{8}{2} \cdot \frac{2}{5}x$$
$$\underline{-15 = x}$$

Solve for x
when $y = 0$

$$-1.25x + \cancel{3} = 0$$

~~-3~~ -3

$$\frac{-1.25x}{-1.25} = \frac{-3}{-1.25}$$

$$x = 2.4$$

$$3x + 7 = 3x + \cancel{1}$$
$$\quad \quad \quad -1 \quad \quad \quad -1$$
$$-3x + 6 = 3x$$
$$\quad \quad \quad -3x \quad \quad \quad -3x$$
$$6 \neq 0$$

$$2x - 4 = 2x - 6$$

$-2x$ $-2x$

$$-4 \neq -6$$

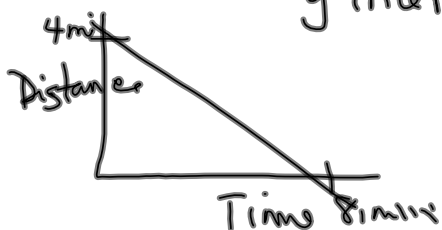
No solution

$$\begin{array}{r} 2 - 3x = 6 - 3x \\ + 3x \qquad \qquad \qquad + 3x \end{array}$$

$2 \neq 6$
No solution

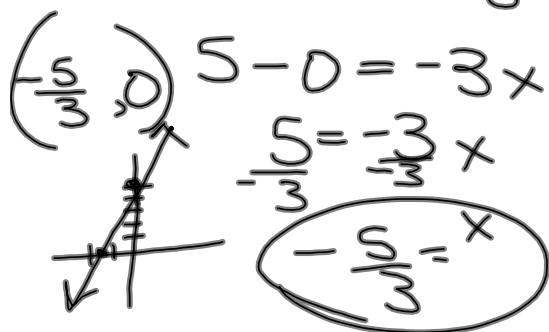
3-2 evens
add Spiral Review
(56, 58, 60)

#22.)

x intercept
y interceptTime Distance
from home
(8, 0)
Time Distance
(0, 4)

24.

$$5 - y = -3x$$



$5 - y = -3(0)$
 $5 - y = 0$
 $-y = -5$
 $y = 5$

$(0, 5)$

pg. 166
24)

$$\begin{array}{r} -7 = 4x + 1 \\ +7 \quad +7 \\ \hline 0 = 4x + 8 \end{array}$$

30.)

$$y = -4$$

