

Pg 364 23, 27, 30, 32, 47-53 odd
54-57

23. $y = 2x - 1$
 $3y = 6x - 5$

$$\boxed{y = 2x - 1}$$
$$\frac{3y}{3} = \frac{6x}{3} - \frac{5}{3}$$
$$\boxed{y = 2x - \frac{5}{3}}$$

Slopes are same
So lines are
parallel \therefore no solution

27. $y - x = 5$
 $3y = 3x + 15$
① get into $y =$ form

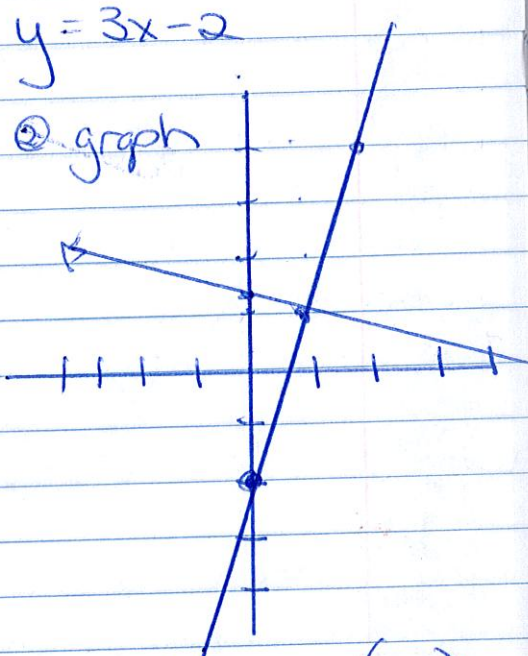
$$\begin{array}{r} y - x = 5 \\ +x \quad +x \\ \hline y = x + 5 \end{array} \quad \begin{array}{r} 3y = 3x + 15 \\ \frac{3y}{3} = \frac{3x}{3} + \frac{15}{3} \\ \hline y = x + 5 \end{array}$$

Same line so
infinite amt of
solutions

30.

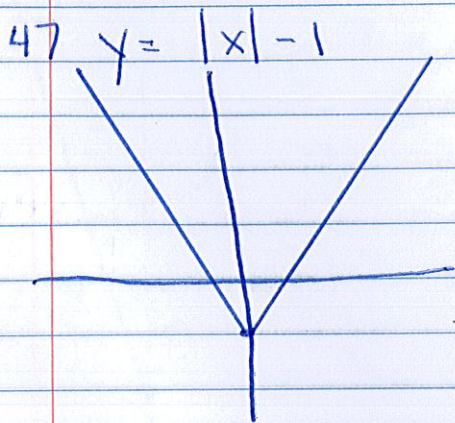
30. $3x - y = 2$
 $4y = -x + 5$
① get into $y =$ form

$$\begin{array}{r} 3x - y = 2 \\ -3x \quad -3x \\ \hline -y = -3x + 2 \\ \frac{-y}{-1} = \frac{-3x}{-1} + \frac{2}{-1} \\ \hline y = 3x - 2 \end{array} \quad \begin{array}{r} 4y = -x + 5 \\ \frac{4y}{4} = \frac{-x}{4} + \frac{5}{4} \\ \hline y = -\frac{1}{4}x + \frac{5}{4} \end{array}$$



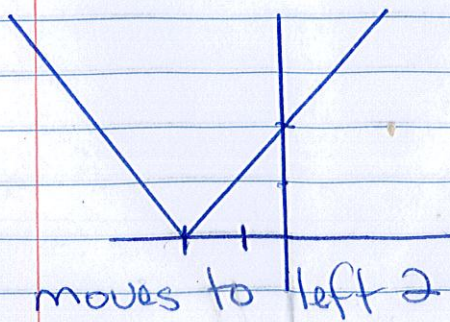
one solution (1, 1)

32. The student did not show enough of the graph. If you continued the graph to the left the lines would intersect at $(-4, 7)$



move parent function down 1

49 $y = |x + 2|$



51. $y = -\frac{1}{2}x - 4$

slope is same

if parallel

$$\therefore \boxed{\begin{matrix} -1 \\ 2 \end{matrix}}$$

53 $3x = 5y + 10$

$$\frac{3x - 10}{5} = \frac{5y}{5}$$

$$\boxed{\frac{3}{5}x - 10 = y}$$

// is the same

slope $\therefore \frac{3}{5}$

54. $4x + 2y = 38$

$$\frac{2y}{2} = \frac{-4x + 38}{2}$$

$$\boxed{y = -2x + 19}$$

$$55. \frac{1}{2}x + \frac{1}{3}y = 5$$

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

$$3 \cdot \frac{1}{3}y = 3 \cdot -\frac{1}{2}x + 5 \cdot 3$$

$$y = -\frac{3}{2}x + 15$$

$$56. \frac{2}{3}x + \frac{3}{2}y = \frac{4}{5}x + \frac{2}{3}$$

$$y = \frac{8}{15}x$$

$$57. 1.5x - 4.5y = 21$$

$$-1.5x$$

$$-4.5y = -1.5x + 21$$

$$-4.5y = -4.5x + 21$$

$$y = \frac{1}{3}x - \frac{14}{3}$$

$$x = 5$$

$x = 5$ substitute (C)

(4) substitute (A, B) to

one of the equations

$$2(5) + 4y = 48$$

$$10 + 10 + 4y = 48 - 10$$

$$4y = 8 \Rightarrow y = 2$$

(5, 2)

28, 58, 18, 86, 76, 86, 66, 06, 21, 81 #

$$4y - x = 5 + 2y$$

$$-x = 5 + 2y - 4y$$

$$-x = 5 - 2y$$

$$x = 2y - 5$$

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