MTH1W

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Pre Lesson 6.2

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Strategies for converting to y=

1) If y is positive, leave it and move the stuff to the other side.

2) If y is negative, move it to the other side.

3) Leave numbers as fractions

✡ When you switch sides switch signs.

$2x + 5 = 8$
$-5 \quad -5$

Convert each equation into y=

2) $4x + y = -34$

$y = -34 - 4x$

3) $3x + 2y = -20$

$\frac{2y}{2} = \frac{-20}{2} - \frac{3x}{2}$

$y = -10 - \frac{3}{2}x$

4) $4x - y = 28$

$4x = 28 + y$

$4x - 28 = y$

5) $5x - 3y = 3$

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

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

6) $6x = -21y + 81$

$$\frac{21}{21}y = \frac{81}{21} - \frac{6}{21}x$$

$$y = \frac{27}{7} - \frac{2}{7}x$$

7) $5x - 2y = 0$

$$\frac{5}{2}x = \frac{2}{2}y$$

$$\frac{5}{2}x = y$$

8) $-2 = -x + \frac{2}{3}y$

$$3(x) - (2)3 = 3\left(\frac{2}{3}y\right)$$

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

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

9) $0 = -5y + 10 - x$

$$\frac{5}{5}y = \frac{10}{5} - \frac{1}{5}x$$

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

10) $y + 5 = 4(x + 2)$ multiply

$$y + 5 = 4x + 8 - 5$$

$$y = 4x + 3$$

11) $y - 5 = -9(x + 1)$

$$y - 5 = -9x - 9 + 5$$

$$y = -9x - 4$$