MTH1W

Name Mr. Hagen

Pre Lesson 6.2

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Strategies for converting to y=

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

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

3) When you move things, keep this in mind:
"when you switch sides, switch signs"

4) Leave numbers as fractions.

Convert each equation into y=

2) $4x + y = -34$

$y = -34 - 4x$ (-34: 2nd, -4x: 1st)

$y = -4x - 34$

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

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

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

4) $4x - y = 28$

$4x = 28 + y$

$4x - 28 = y$

$y = 4x - 28$

5) $5x - 3y = 3$

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

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

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

$\frac{21y}{21} = \frac{-6x}{21} + \frac{81}{21}$ (÷3)

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

7) $5x - 2y = 0$

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

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

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

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

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

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

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

$5y = -x + 10$ (2nd, 1st)

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

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

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

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

$y = 4x + 3$

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

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

$y = -9x - 4$