MTH1W

Name Answers

Rearranging Equations Practice

Date _____

Convert each equation to y=

1) $9x + y = -4$

$y = -9x - 4$

2) $x - y = -1$

$x + 1 = y$

3) $3x + 2y = 4$

$\frac{2y}{2} = \frac{-3x}{2} + \frac{4}{2}$

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

4) $4x - 3y = 9$

$\frac{4x}{3} - \frac{9}{3} = \frac{3y}{3}$

$\frac{4}{3}x - 3 = y$

5) $5x - 3y = -12$

$\frac{5x}{3} + \frac{12}{3} = \frac{3y}{3}$

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

6) $5x - y = 0$

$5x = y$

7) $x + 3y = -3$

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

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

8) $5x + 2y = -10$

$\frac{2y}{2} = \frac{-5x}{2} - \frac{10}{2}$

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

9) $3x - 4y = 4$

$\frac{3x}{4} - \frac{4}{4} = \frac{4y}{4}$

$\frac{3}{4}x - 1 = y$

10) $3x + 5y = 25$

$\frac{5y}{5} = \frac{-3x}{5} + \frac{25}{5}$

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

11) $-2 = -3x + 2y$

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

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

12) $10 + 4x - 5y = 0$

$\frac{4x}{5} + \frac{10}{5} = \frac{5y}{5}$

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

13) $3y + 18x = -3$

$\frac{3y}{3} = \frac{-18x}{3} - \frac{3}{3}$

$y = -6x - 1$

14) $-3x = -y + 2$

$y = 3x + 2$

15) $4x = -15 + 5y$

$\frac{4x}{5} + \frac{15}{5} = \frac{5y}{5}$

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

16) $4 - 3x - 2y = 0$

$\frac{-3x}{2} + \frac{4}{2} = \frac{2y}{2}$

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

17) $21x = 24 + 12y$

$\frac{21x}{12} - \frac{24}{12} = \frac{12y}{12}$

$\frac{7}{4}x - 2 = y$

18) $-3y + 5x - 12 = 0$

$\frac{5x}{3} - \frac{12}{3} = \frac{3y}{3}$

$\frac{5}{3}x - 4 = y$

19) $3\left(\frac{1}{3}y\right) = 3(1) + 3\left(\frac{5}{6}x\right)$

$y = 3 + \frac{15}{6}x$

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

20) $-7x = -3y - 9$

$\frac{3y}{3} = \frac{7x}{3} - \frac{9}{3}$

$y = \frac{7}{3}x - 3$