## Linear Equation Review

Solve each linear equation. Show your work.

$$2x - (5 - x) = \frac{5}{2}$$

$$\frac{1}{4}(x+2) - 2 = 0.5$$

$$4x - \frac{5 - 2x}{5} = \frac{3}{5}$$

Write each repeating decimal as a fraction. Show your work.

Tell whether each equation has one solution, no solution, or an infinite number of solutions. Show your work.

$$2x + 4 = -2\left(\frac{1}{2} - x\right)$$

$$4x + 5 = 2x - 7$$

$$2x + 5 = -4\left(-\frac{5}{4} - \frac{1}{2}x\right)$$

$$8(x+2) = 2x + 16$$

$$3 + \frac{3}{2}x + 4 = 4x - \frac{5}{2}x$$

$$\frac{3}{2}(2x+6) = 3x+9$$

$$\frac{1}{2}(2-4x) + 2x = 13$$

Find the value of y when x = 4.

$$\frac{1}{7}(3x+y)=x$$

$$\frac{3y+1}{4} = 2x$$

Complete the table of x- and y-values for each equation.



$$y = 5(x + 3)$$

$$\frac{x}{4} + y = 1$$

х	2	?_	?_
у	?_	0	-0.5

<sup>\*\*\*</sup>Don't forget to study Math Warm Up Problems from this week!\*\*\*