

Solving Equations Review

$$\textcircled{1} \frac{8}{3} - \frac{3}{8} y = -\frac{24}{1} - \frac{8}{3}$$

$$\boxed{y = 64}$$

$$\textcircled{2} \begin{array}{r} 2x + 7 = 5x + 16 \\ -5x \quad -5x \end{array}$$

$$\begin{array}{r} -3x + 7 = 16 \\ -7 \quad -7 \end{array}$$

$$\begin{array}{r} -3x = 9 \\ -3 \quad -3 \end{array}$$

$$\boxed{x = -3}$$

$$\textcircled{3} -3(h-6) = 5(2h+3)$$

$$\begin{array}{r} -3h + 18 = 10h + 15 \\ -10h \quad -10h \end{array}$$

$$\begin{array}{r} -13h + 18 = 15 \\ -18 \quad -18 \end{array}$$

$$\begin{array}{r} -13h = -3 \\ -13 \quad -13 \end{array}$$

$$\boxed{h = \frac{3}{13}}$$

$$\textcircled{4} \left(3x - \frac{2}{3}\right) = \left(\frac{1}{2}x + 4\right)6$$

$$\begin{array}{r} 18x - 4 = 3x + 24 \\ -3x \quad -3x \end{array}$$

$$\begin{array}{r} 15x - 4 = 24 \\ +4 \quad +4 \end{array}$$

$$\begin{array}{r} 15x = 28 \\ 15 \quad 15 \end{array}$$

$$\boxed{x = \frac{28}{15}}$$

$$\textcircled{5} \left(\frac{1}{5} + x - \frac{6}{5}\right) = \left(x + \frac{1}{5}\right)9$$

$$1 + 5x - 6 = 5x + 1$$

$$\begin{array}{r} -5 + 5x = 5x + 1 \\ -5x \quad -5x \end{array}$$

$$-5 = 1$$

$\boxed{\text{No Solution}}$

$$\textcircled{5} \frac{2}{3}(6x+30) = x + 5(x+4) - 2x$$

$$4x + 20 = x + 5x + 20 - 2x$$

$$\begin{array}{r} 4x + 20 = 4x + 20 \\ -4x \quad -4x \end{array}$$

$$20 = 20$$

$\boxed{\mathbb{R}}$

All Real #s