

Review for Test on 9.13.2024

$$2) z + (z - 6) - 2 = -10$$

$$z + z - 6 - 2 = -10$$

$$2z - 8 = -10$$

$$\begin{array}{r} +8 \quad +8 \\ \hline \end{array}$$

$$\frac{2z}{2} = \frac{-2}{2}$$

$$z = -1$$

$$1) 8y - 7 = 9$$

$$\begin{array}{r} +7 \quad +7 \\ \hline \end{array}$$

$$\frac{8y}{8} = \frac{16}{8}$$

$$y = 2$$

$$\begin{array}{r} 3) \quad 3.2x - 1.7x + 5.5 = 10 \\ \quad 1.5x + 5.5 = 10 \\ \quad \quad - 5.5 \quad - 5.5 \\ \hline \quad \quad \underline{1.5x} \quad = \quad \underline{4.5} \\ \quad \quad \quad \underline{1.5} \quad \quad \quad \underline{1.5} \\ \quad \quad \quad \quad x = 3 \end{array}$$

$$4) \quad 3(2x + 1) + x = -39$$

$$6x + 3 + x = -39$$

$$7x + 3 = -39$$

$$\begin{array}{r} -3 \quad -3 \\ \hline \end{array}$$

$$\frac{7x}{7} = \frac{-42}{7}$$

$$x = -6$$

$$5) m + 4(2m - 3) = -3$$

$$m + 8m - 12 = -3$$

$$9m - 12 = -3$$

$$+12 \quad +12$$

$$\frac{9m}{9} = \frac{9}{9}$$

$$m = 1$$

$$\begin{array}{r} 6) \quad 6n - 12 = n + 3 \\ \quad \quad -n \quad \quad \quad -n \\ \hline 5n - 12 = 3 \\ \quad \quad +12 \quad +12 \\ \hline 5n = 15 \\ \quad \quad \frac{5}{5} \quad \frac{5}{5} \\ \quad \quad n = 3 \end{array}$$

$$\begin{array}{r} 7) \quad \$9.25 \\ \quad -1.75 \\ \hline \quad 7.50 \div 3 = \$2.50 \end{array}$$

$$\$9.25 = 1.75 + 3x$$

$$8) \quad \frac{1}{5}q = 9 - \frac{2}{5}q$$

$$\begin{array}{r} +\frac{2}{5}q \\ \hline \end{array} \quad \begin{array}{r} +\frac{2}{5}q \\ \hline \end{array}$$

$$\frac{3}{5}q = 9$$

$$q = 15$$

$$9) 3(b-4) = 5b - 2$$

$$3b - 12 = 5b - 2$$

$$\begin{array}{r} -3b \qquad -3b \\ \hline \end{array}$$

$$-12 = 2b - 2$$

$$\begin{array}{r} +2 \qquad +2 \\ \hline \end{array}$$

$$\underline{-10} = \underline{2b}$$

$$\underline{2} \qquad \underline{2}$$

$$-5 = b$$

$$10) 8x + 3 = 8x \quad 11) 6(2x + 4) = 4(3x + 6)$$

no sol 12x + 24 = 12x + 24

$$12) \begin{array}{r} x + 2 = 5x \\ -x \quad \quad -x \\ \hline 2 = 4x \\ \frac{2}{4} = \frac{4x}{4} \end{array}$$

$$\frac{2}{4} = \frac{1}{2} = x$$

many sol

$$13) x + 1 = x + 1$$

many sol

$$15) 7 + 5(b - 3) = b$$

$$7 + 5b - 15 = b$$

↑ one sol ↑
unlike

$$16) 10.5 - 4.25x = -4.25x$$

↑ no sol ↑
↑ alike ↑

