

NAME:

UNIT 1- DAY 9 HOMEWORK



Solve the following equations:

1. $-16f = 22 - 5f$

$$\begin{array}{r} +5f \quad +5f \\ \hline -11f = 22 \\ \hline -11 \quad -11 \\ \hline f = -2 \end{array}$$



2. $12 + 5x = 2x - 9$

$$\begin{array}{r} -12 \quad -12 \\ \hline 5x = 2x - 21 \\ \hline -2x \quad -2x \\ \hline 3x = -21 \\ \hline 3 \quad 3 \\ \hline x = -7 \end{array}$$



3. $6 + 4y = y + 3$

$$\begin{array}{r} -6 \quad -6 \\ \hline 4y = y - 3 \\ \hline -y \quad -y \\ \hline 3y = -3 \\ \hline 3 \quad 3 \\ \hline y = -1 \end{array}$$

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$$4. 2 - 14m = 5(-3m + 2)$$

$$\begin{array}{r} 2 - 14m = -15m + 10 \\ -2 \qquad \qquad -2 \\ \hline \end{array}$$

$$\begin{array}{r} -14m = -15m + 8 \\ +15m \quad +15m \\ \hline \end{array}$$

$$\boxed{m=8}$$

$$5. 5(1 + 5k) = 2(5 + 10k)$$

$$\begin{array}{r} 5 + 25k = 10 + 20k \\ -5 \qquad \qquad -5 \\ \hline \end{array}$$

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$$\frac{5k=5}{5 \quad 5}$$

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$$6. 3 - 6(x - 5) = 5x$$

$$\begin{array}{r} 3 - 6x + 30 = 5x \\ 33 - 6x = 5x \\ +6x \quad +6x \\ \hline \end{array}$$

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