## Warm up:

Solve.

1) 
$$-4 + 9(3x - 1) = 8$$

$$-4 + 27x - 9 = 8$$

$$27x - 13 = 8$$

$$27x - 13 = 8$$

$$27x - 13 = 8$$

$$27x - 21 = 9$$

2) 
$$x - (4x - 4) - (2x + 3) = -2$$
  
 $x - 4x + 41 - 2x - 3 = -2$   
 $-5x + 1 = -2$ 



## HW Solutions

1)(3/2)

6) 27/2

2) 2/3

7) 5/7

3) 8/9

8) -34/19

4) 11

9) -39/8

5) 17/14

10) -12

$$\frac{-2+6x+6-9x=2}{-3x+4=2}$$

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

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

$$\frac{3}{-10+4(7x-8)=-8}$$

$$-10+28x-32=-8$$

$$\frac{28x-42=-8}{+42-442}$$

$$\frac{28x=34}{x=14}$$

$$\begin{array}{r}
(8) -4x -3(5x+12) = -2 \\
-4x -15x -36 = -2 \\
-19x -36 = -2 \\
+36 +36 \\
\hline
-19x = 34 \\
-19 & -19 \\
\hline
(x = -34)
\end{array}$$

 $\begin{array}{c}
0 \\
(x+2) - 5(2x-3) + 2(4x-8) = 13 \\
x+2 - 10x+15 + 8x-16 = 13
\\
-x+1 = 13 \\
-x=12 \\
\hline
(x=-12)
\end{array}$ 

 $9 - 3 + 5(2 \times 3) - 6(3 \times 4) = -3$   $-3 + 10 \times -15 - 18 \times -24 = -3$   $-8 \times -42 = -3$   $-8 \times = 39$  = -8 = -39

$$\frac{3}{-6x^{2}4^{2}-3x^{2}8} = -12$$

$$-9x - 4 = -12$$

$$-9x = -8$$

$$-9x = -8$$

$$-9 = -9$$

$$\begin{array}{r}
4 + 3(-x+4) = -11 \\
4 - 3x + 18 = -11 \\
-3x + 22 = -11 \\
-3x = -33 \\
\hline
-3x = -33 \\
\hline
-3 = 11
\end{array}$$

## **Educreations Presentations**

4 points

- 4 accurately solved a multi-step equation which incorporated the distributive property and negative numbers
- 3 minor calculation errors, missed one of the criteria
- 2 several calculation errors, missed more than one of the criteria
- 1 major errors, missing more than one of the criteria

