SHOW ALL WORK!!

1)\[ \frac{x}{-5} + 21 = 18 \]
\[ \frac{-21}{-5} - 21 \]
\[ -5 \cdot \frac{x}{-5} = -3 \cdot 5 \]
\[ x = 15 \]

5)\[ -33 + 4x = -11 \]
\[ +33 +33 \]
\[ \frac{4x}{4} = \frac{22}{4} \]
\[ x = \frac{11}{2} \text{ or } 5\frac{1}{2} \text{ or } 5.5 \]

2)\[ 40 = -8y - 22 \]
\[ +22 +22 \]
\[ 62 = -8y \]
\[ y = \frac{-31}{4} \text{ or } -7\frac{3}{4} \text{ or } -7.75 \]

6)\[ \frac{-2}{9} = \frac{k}{9} - 15 \]
\[ +15 +15 \]
\[ 9 \cdot 13 = \frac{k}{9} \cdot 9 \]
\[ 117 = k \]

3)\[ \frac{y}{-8} - 4 = -7 \]
\[ +4 +4 \]
\[ -8 \cdot \frac{y}{-8} = -3 \cdot -8 \]
\[ y = 24 \]

7)\[ -10x + 53 = 28 \]
\[ -53 -53 \]
\[ -10x = -25 \]
\[ \frac{-10x}{-10} \]
\[ x = \frac{5}{2} \text{ or } 2\frac{1}{2} \text{ or } 2.5 \]

4)\[ \frac{x}{7} + 35 = 29 \]
\[ -35 -35 \]
\[ 7 \cdot \frac{x}{7} = -6 \cdot 7 \]
\[ x = -42 \]

8)\[ -4 = 31 + \frac{x}{3} \]
\[ -31 -31 \]
\[ 3 \cdot -35 = \frac{x}{3} \cdot 3 \]
\[ -105 = x \]
Two-Step Equations/Inequal. – Worksheet #2

Which of the following is a solution to:

\[-3y + 3 = -18\]

\[
\begin{align*}
A & \quad y = -5 \\
B & \quad y = -7 \\
C & \quad y = \text{all negative numbers} \\
D & \quad y = 7
\end{align*}
\]

Which of the following is a solution to:

\[-20 \div 4 = 1\]

\[
\begin{align*}
A & \quad x = 60 \\
B & \quad x = -100 \\
C & \quad x = -3 \text{ and } x = 5 \\
D & \quad x = 6
\end{align*}
\]

Which of the following is a solution to:

\[35 = 11 - 2x\]

\[
\begin{align*}
A & \quad x = 23 \\
B & \quad x = 12 \\
C & \quad x = -48 \\
D & \quad x = -12
\end{align*}
\]