

Homework #56 ~ Solving Two Step Equations

ons: Solve AND CHECK the following equations algebraically. Show ALL work!

<p>1) $\frac{x}{-3} + 2 = -5$ $\frac{x}{-3} + 2 = -5$ $\frac{x}{-3} = (-7) - 2$ $\frac{x}{-3} = (-7) - 3$ $x = 21$</p>	<p>$\frac{x}{-3} + 2 = -5$ $\frac{x}{-3} = -7$ $\frac{x}{-3} + 2 = -5$ $-7 + 2 = -5$ $-5 = -5 \checkmark$</p>	<p>2) $10x - 30 = 50$ $10x - 30 = 50$ $10x = 80$ $10x = 80$ $\frac{10x}{10} = \frac{80}{10}$ $x = 8$</p>	<p>$10x - 30 = 50$ $10(8) - 30 = 50$ $80 - 30 = 50$ $50 = 50 \checkmark$</p>
<p>3) $6 = 2x - 12$ $6 = 2x - 12$ $18 = 2x$ $18 = 2x$ $\frac{18}{2} = \frac{2x}{2}$ $x = 9$</p>	<p>$6 = 2x - 12$ $6 = 2(9) - 12$ $6 = 18 - 12$ $6 = 6 \checkmark$</p>	<p>4) $-2 = \frac{x}{4} - 6$ $-2 = \frac{x}{4} - 6$ $4(4) = \frac{x}{4} \cdot 4$ $4(4) = \frac{x}{4} \cdot 4$ $x = 16$</p>	<p>$-2 = \frac{x}{4} - 6$ $-2 = \frac{16}{4} - 6$ $-2 = 4 - 6$ $-2 = -2 \checkmark$</p>
<p>5) $-2(y + 4) = 2$ $-2(y + 4) = 2$ $-2y - 8 = 2$ $-2y = 10$ $-2y = 10$ $\frac{-2y}{-2} = \frac{10}{-2}$ $y = -5$</p>	<p>$-2(y + 4) = 2$ $-2(-5 + 4) = 2$ $-2(-1) = 2$ $2 = 2 \checkmark$</p>	<p>6) $6 = \frac{1}{2}(2x - 12)$ $6 = \frac{1}{2}(2x - 12)$ $6 = x - 6$ $6 = x - 6$ $\frac{6}{1} = \frac{x - 6}{1}$ $x = 12$</p>	<p>$6 = \frac{1}{2}(2x - 12)$ $6 = \frac{1}{2}(2(12) - 12)$ $6 = \frac{1}{2}(24 - 12)$ $6 = \frac{1}{2}(12)$ $6 = 6 \checkmark$</p>