

4-3 Solving Equations Using Addition and/or Subtraction

Two major ideas:

1. Get the variable by itself by "undoing" any operations.
2. Keep the equation balanced.

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Ex. 1 Solve:

$$\begin{array}{r} x - 4 = -3 \\ +4 \quad +4 \\ \hline x = 1 \end{array}$$

check
 $1 - 4 = -3 \checkmark$

$$\begin{array}{r} -8.4 = n - 6.1 \\ +6.1 \quad +6.1 \\ \hline -2.3 = n \end{array}$$

check
 $-2.3 - 6.1 \checkmark$

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Ex. 2 Solve:

$$\begin{array}{r} 32 = y + 12 \\ -12 \quad -12 \\ \hline 20 = y \end{array}$$

$20 + 12 \checkmark$

$$\begin{array}{r} x + 6.9 = 4.2 \\ -6.9 \quad -6.9 \\ \hline x = -2.7 \end{array}$$

$-2.7 + 6.9 \checkmark$

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Ex. 3 Solve:

$$\begin{array}{r} a - \frac{2}{3} = \frac{1}{4} \\ +\frac{2}{3} \quad +\frac{2}{3} \\ \hline a = \frac{11}{12} \end{array}$$

$\frac{11}{12} - \frac{2}{3} \checkmark$

$$\begin{array}{r} n + 1\frac{1}{5} = \frac{2}{7} \\ -1\frac{1}{5} \quad -1\frac{1}{5} \\ \hline n = -\frac{32}{35} \end{array}$$

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Ex. 4 Driskill Mountain, with a height of 535 ft., is the highest point in Louisiana. It is 8214 ft. lower than Guadalupe Peak, which is the highest point in Texas.

Write and solve a subtraction equation to find the height of Guadalupe Peak.

Homework

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