## L4-3 Solving Equations by Adding and Subtracting

- solution - value of the variable
- solving the equation - find the answer/solution/value of the variable
- inverse operation - add/subtract or division/mult operations that undo one another
- equivalent equations - equations that have the same value/solution but look different
- simplified equation - in its most basic form BUT not solved

Solve Equations by Adding


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Solve by Subtracting


$$
\begin{gathered}
x+6.9=4.2 \\
-6.9-6.9 \\
x=-2.7
\end{gathered}
$$

$$
\begin{aligned}
& \text { Solve Equations Involving Distributive Property } \\
& 14=3(t+5) \\
& -8.4=1.6(n-6.1)
\end{aligned}
$$

$$
\begin{aligned}
& \text { MOUNTAINS Driskill Mountain, with a height of } 535 \text { feet, is the } \\
& \begin{array}{l}
\text { highest point in Louisiana. It is } 8214 \text { feet lower than Guadalupe } \\
\text { Peak, which is the highest point in Texas. Write and solve an }
\end{array} \\
& \text { equation to find the height of Guadalupe Peak. } \\
& \text { Driskill }=\text { Gudalupt }-8214 \\
& \begin{array}{l}
535=9-8214 \\
8214 \\
\hline 8214
\end{array} \\
& \frac{8214+82 / 4}{8749 \mathrm{ft}=9} \\
& \text { Guadalupe }=\text { Driskill }+8214
\end{aligned}
$$

BUILDINGS Write and solve an equation to find the expected heigl

