3.1 Solving Equations Using Addition and Subtraction

- **Goals** Solve linear equations using addition and subtraction.
 - Use linear equations to solve real-life problems.

VOCABULARY	
Equivalent equations	
Inverse operations	
Solution step	
Linear equation	

TRANSFORMATIONS THAT PRODUCE EQUIVALENT EQUATIONS

	Original Equation		Equivalent Equation
 Add the same number to each side. 	x - 3 = 5	Add	x =
 Subtract the same number from each side. 	x + 6 = 10	Subtract	x =
 Simplify one or both sides. 	x = 8 - 3	Simplify.	x =
 Interchange the sides. 	7 = x	Interchange.	x =



Checkpoint Solve the equation. Check your solution in the original equation.

1. $x - 7 = -15$	2. $n - (-6) = 4$	3. $-7 = 10 + y$
4. 5 - (-z) = 21	5. $m - -3 = 14$	6. $-8 = -b + (-2)$

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