\_\_\_\_\_ Class\_\_\_\_\_ Date\_\_

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**Completing the Square** 

## Practice 10-5

Find the value of *n* such that each expression is a perfect square trinomial.

**2.**  $x^2 - \frac{2}{9}x + n$ **1.**  $x^2 - 14x + n$ **4.**  $x^2 - \frac{2}{6}x + n$ **3.**  $x^2 - \frac{4}{9}x + n$ 

Solve each equation by completing the square. If necessary, round to the nearest hundredth.

5.	$x^2 - 4x = 5$	<b>6.</b> $x^2 - x - 2 = 0$
7.	$x^2 - 6x = 10$	<b>8.</b> $x^2 + 4x + 4 = 0$
9.	$x^2 - 3x = 18$	<b>10.</b> $x^2 - 8x - 4 = 0$
11.	$x^2 - 6x = 0$	<b>12.</b> $x^2 - 6x = 8$
13.	$x^2 - 7x = 0$	<b>14.</b> $x^2 + 4x - 12 = 0$
15.	$x^2 + 11x + 10 = 0$	<b>16.</b> $x^2 + 2x = 15$
17.	$x^2 - 8x = 9$	<b>18.</b> $x^2 + 5x = -6$
19.	$x^2 - 2x = 120$	<b>20.</b> $x^2 - 22x = -105$
21.	$2x^2 = 3x + 9$	<b>22.</b> $2x^2 + 8x - 10 = 0$
23.	$2x^2 - 3x - 2 = 0$	<b>24.</b> $2x^2 + 12x - 32 = 0$
25.	$3x^2 + 17x - 6 = 0$	<b>26.</b> $2x^2 - x - 28 = 0$
27.	$3x^2 - 4x + 1 = 0$	<b>28.</b> $2x^2 - 5x - 3 = 0$
29.	$6x^2 - 2x = 28$	<b>30.</b> $2x^2 - 16x = -30$
31.	$4x^2 = -2x + 12$	<b>32.</b> $9x^2 + 6x = 3$
33.	$10x^2 + 3x = 4$	<b>34.</b> $12x^2 - 29x + 15 =$

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