

# PRACTICE

1. The diagram represents the expression  $x^2 + 4x + c$  with the constant term missing. Complete the square by filling in the bottom right corner with 1-tiles, and write the expression as a trinomial and in factored form.

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Complete the square to form a perfect square trinomial. Then factor the trinomial.

2.  $m^2 + 10m + \square$

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4.  $y^2 + 2y + \square$

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3.  $g^2 - 20g + \square$

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5.  $w^2 - 11w + \square$

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Solve the equation by completing the square.

6.  $s^2 + 15s = -56$

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8.  $y^2 + 19y + 78 = 0$

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10.  $t^2 + 2t - 224 = 0$

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12.  $g^2 + 3g = -6$

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14.  $z^2 = 6z - 2$

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16.  $9z^2 + 48z = 36$

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7.  $r^2 - 4r = 165$

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9.  $x^2 - 19x + 84 = 0$

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11.  $x^2 + 18x - 175 = 0$

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13.  $p^2 - 3p = 18$

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15.  $x^2 + 25 = 10x$

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17.  $49x^2 + 28x = 60$

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