2.5 Practice A

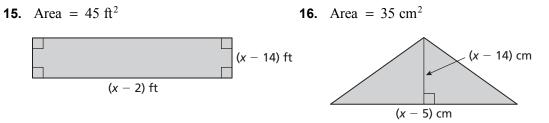
In Exercises 1–12, factor the polynomial.

1.	$x^2 + 5x + 6$	2.	$x^2 + 8x + 12$	3.	$z^2 + 11z + 28$
4.	$w^2 - 7w + 12$	5.	$y^2 - 14y + 24$	6.	$x^2 - 11x + 28$
7.	$x^2 + x - 20$	8.	$y^2 - 6y - 16$	9.	$m^2 + 8m - 9$
10.	$n^2 - 3n - 40$	11.	$d^2 + 5d - 24$	12.	$z^2 + 3z - 28$

- **13.** A projector displays a rectangular image on a wall. The height of the wall is x feet. The area (in square feet) of the projection is represented by $x^2 12x + 32$. The width of the projection is (x 4) feet.
 - **a.** Write a binomial that represents the height of the projection.
 - **b.** Find the perimeter of the projection when the height of the wall is 10 feet.
- **14.** Describe and correct the error in factoring the polynomial.

 $\times x^2 - 11x + 18 = (x - 3)(x - 6)$

In Exercises 15 and 16, find the dimensions of the polygon with the given area.



17. Write an equation of the form $x^2 + bx + c = 0$ that has the solutions x = -3 and x = 8. Explain how you found your answer.