

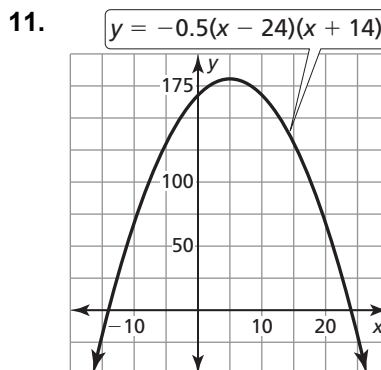
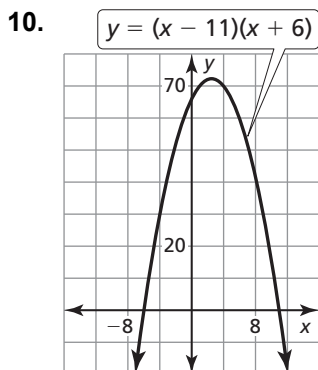
2.4

Practice B

In Exercises 1–9, solve the equation.

1. $-3y(y - 4) = 0$
2. $(d - 6)(d + 1) = 0$
3. $(w + 3)(w - 5) = 0$
4. $(2 - 3x)(2 + 3x) = 0$
5. $9h(h - 4)(3h + 2) = 0$
6. $k(k + 2)^2 = 0$
7. $(y - 7)^2(y + 9) = 0$
8. $(12 - 4n)(3n - 5)(-n + 2) = 0$
9. $(5 - n)\left(3 - \frac{1}{2}n\right)(n - 4) = 0$

In Exercises 10 and 11, find the x -coordinates of the points where the graph crosses the x -axis.



In Exercises 12–14, factor the polynomial.

12. $36v^2 + 24v$
13. $3r^6 - 2r^5$
14. $18a^5 + 12a$

In Exercises 15–17, solve the equation.

15. $16h^2 - 8h = 0$
16. $4w^2 = 12w$
17. $-32n = 8n^2$

18. Describe and correct the error in solving the equation.

\times $15t^2 = 5t$
 $3t = 1$
 $t = \frac{1}{3}$
 The root is $t = \frac{1}{3}$.

19. Write a polynomial of degree 3 whose only roots are $x = 2$ and $x = \frac{2}{5}$. Is there another polynomial of degree 3 that has the same roots?