$\qquad$
$\qquad$

### 7.6 Practice A

In Exercises 1-12, factor the polynomial.

1. $6 x^{2}-12 x-18$
2. $5 x^{2}-15 x-50$
3. $9 x^{2}-36 x+27$
4. $2 x^{2}+2 x-4$
5. $6 x^{2}-7 x-20$
6. $2 x^{2}-5 x-3$
7. $4 x^{2}+21 x-18$
8. $2 x^{2}-13 x-45$
9. $3 x^{2}+22 x-16$
10. $-2 p^{2}+7 p-6$
11. $-5 v^{2}+31 v-6$
12. $-6 v^{2}-11 v-4$
13. Describe and correct the error in factoring the polynomial.


In Exercises 14 and 15, solve the equation.
14. $4 x^{2}-4 x-24=0$
15. $3 p^{2}-5 p-28=0$

In Exercises 16 and 17, find the $x$-coordinates of the points where the graph crosses the $x$-axis.
16.

17.

18. The height $h$ (in feet) above the water of a cliff diver is modeled by $h=-16 t^{2}+10 t+26$, where $t$ is the time (in seconds). How long is the diver in the air?
19. For what values of $t$ can $10 x^{2}+t x+8$ be written as the product of two binomials?

In Exercises 20 and 21, factor the polynomial.
20. $6 a^{2}-13 a b-5 b^{2}$
21. $4 x^{2}+11 x y-3 y^{2}$

