EXERCISES

1–10 ■ An equation involving a rational power is given. Find all solutions of the equation.

1. \( x^{3/2} = 27 \)  
2. \( x^{2/3} = 4 \)

3. \( x^{2/5} - 16 = 0 \)  
4. \( x^{5/2} + 32 = 0 \)

5. \( 32x^{5/3} + 1 = 0 \)  
6. \( 64x^{3/4} - 125 = 0 \)

7. \( (x-2)^{1/5} = -2 \)  
8. \( (2x-3)^{2/3} = 4 \)

9. \( 5(x+3)^{2/3} - 45 = 0 \)  
10. \( (x-3)^{3/4} + \frac{1}{8} = 0 \)