- **21.** x = 3
- **22.** x = 7.5
- **23.** x = -1
- **24.** $x = -\frac{43}{15}$
- **25.** x = 4
- **26.** x = 0.25
- **27.** $x = \pm 8$
- **28.** x = 4
- 29. no real solution
- **30.** x = 81
- **31.** x = 3
- **32.** x = 1
- **33.** x = 5
- **34.** x = 1 and x = 2
- **35.** Only one side of the equation was cubed;

$$\sqrt[3]{3x - 8} = 4$$

$$(\sqrt[3]{3x-8})^3 = 4^3$$

$$3x - 8 = 64$$

$$x = 24$$

36. When raising each side to an exponent, the 8 was not included;

$$8x^{3/2} = 1000$$

$$(8x^{3/2})^{2/3} = 1000^{2/3}$$

$$4x = 1000$$

$$x = 25$$