## Answers to 8.3 Comparing Functions

- 1) Linear
- 3) Linear
- 5) Quadratic
- 7) Quadratic

- 9) Exponential
- 11) d. 4, 16, 16
  - e. f(x) has the slowest rate of chage over the interval. g(x) and h(x) have the same rate of change over the interval, which is four times as fast as the rate of change for f(x).
- 13) Alejandro's
- 15) School A is expecting a constant rate of change in their enrollment size. School B is expecting exponential growth each year, which results in a much faster growth rate as the years go on. For the first 10 years, school A will have more students. After the 11th year, school B will begin to have more students.