## Answers to 8.3 Comparing Functions

1) Linear 3) Linear 5) Quadratic 7) Quadratic
2) Exponential
3) 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 $f(x)$.
4) Alejandro's
5) 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.
