## Business PreCalculus MATH 1643 Section 004, Spring 2014 Answer key:worksheet 16

## **1-** Answers:

- **a.** g(x) is determined from f(x) by shifting to the right 1 unit.
- **b.** g(x) is determined from f(x) by shifting up 2 units.
- **c.** g(x) is determined from f(x) by a horizontal stretching away from the y-axis, then a reflection on the x-axis, then shifting up 3 units.
- **d.** g(x) is determined from f(x) by shifting to the right 1 unit, then by vertical stretching away from the x-axis.
  - **e.** q(x) is determined from f(x) by a reflection on the x-axis, then by shifting up 1 unit.
- **f.** g(x) is determined from f(x) by a reflection on the y-axis, then by shifting to the left 1 unit, then a reflection on the x-axis, then shifting down 2 units.
- **g.** g(x) is determined from f(x) by a horizontal compression toward the y-axis, then a reflection on the y-axis, then shifting up 4 units.