Graphing Exercises

Pat Rossi   Name _____

Instructions.   Sketch the graph of each of the following functions. Answers appear in the ANSWERS section.

1. $f(x) = 4x^2$

2. $f(x) = 5x^3$

3. $f(x) = 2x^4 - 3$

4. $f(x) = 5 - 3x^5$

5. $f(x) = 3(x - 2)^2$

6. $f(x) = -2(x + 3)^2$

7. $f(x) = x^{\frac{1}{2}}; \; g(x) = x^{\frac{1}{3}}$ graph both functions on the same graph

8. $f(x) = x^2; \; g(x) = x^4$ graph both functions on the same graph

9. $f(x) = x; \; g(x) = x^3$ graph both functions on the same graph

10. $f(x) = x^3; \; g(x) = x^5$ graph both functions on the same graph

11. $f(x) = x^{\frac{1}{2}}; \; g(x) = x^2$ graph both functions on the same graph