Trig / Pre-Calc
Ch 2
Sec 2.1 + 2.2 Review

For 1-4, describe the graph using k, a, and n + c (when applicable) Then sketch the graph. Also find D + R

1. $f(x) = \frac{2}{3}x^{3/2}$ 2. $f(x) = -2x^{-4}$ 3. $f(x) = 3x^4$ 4. $f(x) = -\frac{1}{2}x^{\frac{2}{3}}$

Use the five step process to write + solve an equation.

5. The amount of material needed to cover a ball varies directly with the square of the radius. If it takes 172 cm^2 to cover a ball of radius 3.7 cm, what is the radius of a ball that needs 366 cm^2 of material to cover it?

6. The area of a square varies directly with the square of its diagonal. If a square with a diagonal of 9 in has an area of 40.5 in^2, what is the area of a square with diagonal 14 in?

7. When a teeter totter is balanced, each person's weight varies inversely with the distance from the center support. If a person who weighs 90 lbs sits at one end of a 12 ft seesaw/teeter totter, how far away must a 120 lb person sit to balance?