

4) Simplify
$$\left(\frac{-2xy^3}{8x^{-2}y^5}\right)^3$$

5) Perimeter Question: A rectangle garden has a length of 4x - 7 and a width of 2x + 4 and a perimeter of 90 feet. What is the length and width of the garden to the nearest foot? (Draw a picture)

Bonus!! Population Growth: The current population of Russia is estimated at 143.5 million. The *10-year* growth rate shows the population decreasing by 3%. Using an exponential growth/decay model, what do you predict the population of Russia to be in 40 years? **Show all calculations!!!**