5. A power output is $P(x) = 2x^3 - 3x^2 + 6$ from the source to a location 10 miles away. At what distance is the output a maximum?

6. For an item's revenue $R(x) = x^2 - 2x - 3$, state the most lost.

7. The amount of weeks w needed for a project and pay p for the employees are related by the equation $w^2 = p^2 - 900$. Find dp/dw for w = 6.

8. For the demand function D(p) = 440/p having p = 12, tell if the demand is either elastic, inelastic, or unitary. State this indicates what is to be done with price p and how revenue is effected.

9. A company saves money at a rate of 1500e^{0.6t}. Find a formula for total savings, where no money was saved when the company began.

10. For $f(x) = (1/2)x^2 - 8$ over the x-interval [-4, 4], find the area between the parabola and the x-axis.