1.9 Price Elasticity - Practice Problems Ryan Safner ECON 306 - Fall 2019

The demand for monthly cell phone plans is given by:

 $q_D = 50 - 0.5p$

1. Write the *inverse* demand function.

2. Calculate the price elasticity of demand when the price is \$10. Is this relatively elastic or inelastic?

3. Calculate the price elasticity of demand when the price is \$70. Is this relatively elastic or inelastic?

4. At what price is demand unit elastic $(\epsilon = -1)$?

- 5. Calculate the total revenue at \$10.
- 6. Calculate the total revenue at \$70.
- 7. Calculate the total revenue at the price you found for question 4.