Assignment 0

2. Find the area of a rectangle having length of 8 m and height of 4 m.
   a. 8 m x 4 m
   b. 16 m x 4 m
   c. 32 m x 4 m
   d. 48 m x 4 m

3. Consider the integral of \( \int (3x^2 + 2x + 1) \, dx \).
   a. \( x^3 + x^2 + x + C \)
   b. \( 9x^3 + 4x^2 + x + C \)
   c. \( 3x^3 + 3x^2 + 3 + C \)
   d. \( 3x^3 + 2x^2 + x + C \)

4. Solve for \( y = 7x - 2 \) and \( 3y + x = 4 \).
   a. \( x = 2, y = 3 \)
   b. \( x = 3, y = 2 \)
   c. \( x = 1, y = 5 \)
   d. \( x = 5, y = 1 \)

5. Economics deals primarily with the concept of
   a. cost
   b. money
   c. poverty
   d. testing

6. If the cost of a certain item increases, what will be the effect on demand of cars?
   a. Increase
   b. Decrease
   c. No change
   d. None of the above

7. The concept of opportunity cost is related to
   a. human behavior
   b. Political rights
   c. Market Economy
   d. None of the above

8. The amount of resources is related to
   a. human behavior
   b. Political rights
   c. Market Economy
   d. None of the above

9. If the price of a good increases, what will be the effect on demand of this good?
   a. Increase
   b. Decrease
   c. No change
   d. None of the above

10. A large increase in the number of fast-food restaurants in a community is most likely to result in
    a. Lower prices and higher quality
    b. Lower prices and lower quality
    c. Higher prices and higher quality
    d. Lower prices and lower quality