1. The manager of a local monopoly estimates that the elasticity of demand for its product is constant and equal to -2. The firm’s marginal cost is constant at $15 per unit.  
     
   a. Express the firm’s marginal revenue as a function of its price.  
     
   **Instruction:** Round your response to 2 decimal places.  
     
   MR = x P  
     
     
   b. Determine the profit-maximizing price.  
     
   **Instruction:** Use the rounded value calculated above and round your response to 2 decimal places.