Direct and Inverse Variation

1) Select all the equations that model direct variation.
   a) \( \frac{y}{x} - 5 = 1 \)  
   b) \( 2 - \frac{y}{x} = -2 \)  
   c) \( -x - y = 0 \)  
   d) \( xy - 5 = 1 \)

2) Which of the following equations model direct variation?
   a) \( y + x = 0 \)  
   b) \( y - 1 = 3x \)  
   c) \( \frac{x}{y} + 2 = 1 \)  
   d) \( \frac{y}{x} - 6 = -5 \)

3) Select all the equations that model inverse variation.
   a) \( \frac{x}{y} + 7 = 8 \)  
   b) \( 2y = \frac{10}{x} \)  
   c) \( -y + \frac{6}{x} = 0 \)  
   d) \( 5y = -y + \frac{3}{x} \)

4) Which of the following equations model inverse variation?
   a) \( \frac{7}{x} = y \)  
   b) \( -y - \frac{1}{x} = 0 \)  
   c) \( \frac{y}{x} - 4 = 9 \)  
   d) \( x = \frac{2}{y} \)

5) Select the graph that shows direct variation.
   a)  
   b)  
   c)  

6) Select the graph that shows inverse variation.
   a)  
   b)  
   c)  

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