Calculus 120
Assignment #1

1. Write the equation of the line that goes through the points \( A(-4,3) \) and \( B(5,7) \).

2. Write the equation of the line that goes through the point \( (2,1) \) and is parallel to \( x + 3y - 4 = 0 \).

3. Write the equation of the line that goes through the point \( (-4,3) \) and is perpendicular to \( y = \frac{3}{2}x + 6 \).

4. Write the equation of the line that goes through the point \( (5,9) \):
   a) and is parallel to \( y = 3 \)
   b) and is perpendicular to \( y = -2 \)