Recall that \( \lim_{h \to 0} \frac{f(x+h) - f(x)}{h} \) is the derivative of ‘\( f \)’ with respect to ‘\( x \)’, the slope of the tangent line at any point, and the instantaneous rate of change.

For the following functions, find the slope of the tangent line to the graph of the function.

1. \( f(x) = 2x + 7 \)

2. \( f(x) = -x^2 + 3x \)

3. \( f(x) = 2x^2 + 5x \)

For the following functions and given point:
   a. Find the slope of the tangent line at any point.
   b. Using your result from ‘a’ find the slope at the point given.
   c. Using the point given and your results from ‘b’ find an equation of the tangent line to the graph of the function.

4. \( f(x) = -3x + 4 \) at the point \((-1,7)\)

5. \( f(x) = 3x - x^2 \) at the point \((-2,-10)\)