Quiz Review

Please do on separate paper.

Use Limit Definition of Derivatives to find the derivative for #1-4.

1.
$$f(x) = 3x + 7$$

2.
$$g(x) = x^2 - 3x - 10$$

3.
$$h(x) = \sqrt{4x-3}$$

4.
$$f(x) = \frac{2}{x-6}$$

Find the equation of the tangent line to at x = 4 for #5-6. Write the line in slope intercept form.

5.
$$f(x) = 3x^3 - 4x + 2x^2$$

6.
$$g(x) = -\frac{x^4}{2} - 8\sqrt{x}$$

Find the derivative of the function at x = -2 for #7.

7.
$$h(x) = \frac{-3}{x^2} - \frac{4}{x^4} + 3x^{\frac{5}{3}}$$