Quiz 4:

1. Consider the equation \( f(x) = 4 - x^2 \).

   (a) (3 points) Determine the slope of the curve defined by \( f(x) \) at the point \((-1, 3)\).

   (b) (2 points) Using your solution to part 1a, determine the equation of the tangent line to the curve defined by \( f(x) \) at the point \((-1, 3)\) and write it in slope-intercept form.

2. (5 points) At what points does the graph of the function \( g(x) = x^3 - 7x^2 + 12x \) have horizontal tangent lines?