

**Quiz 3      Calculus 1      10/10/2011**

Each problem is worth 5 points. Clear and complete justification is required for full credit.

1. Let  $f(x) = \frac{x+5}{x-1}$ . Find an equation for the line tangent to  $f(x)$  where  $x = 3$ .

2. Let  $g(x) = \sqrt{5x^2 + 4}$ . Find an equation for the line tangent to  $g(x)$  where  $x = 3$ .

