

# Math 2143 - Brief Calculus with Applications

Quiz #1 - 2009.02.03

Name: \_\_\_\_\_

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1. Find an equation for the line with slope -2 which passes through the point  $(3, 1)$ .

2. Find an equation for the line which passes through the points  $(-3, 2)$  and  $(3, 1)$ .

3. Given that  $f(x) = \frac{2+x}{x^2+1}$ , answer the following:

a) Compute  $f(3)$

b) Compute  $f(3 + h)$

4. Construct a function with domain  $D = \{\text{vowels in the English alphabet}\}$  and range  $R = \{\text{set of all colors}\}$ .