## Name:

# MAC1105 Section 1A26 <br> Quiz 6 

Please show all of your work in a NEAT and ORGANIZED fashion.

1. (3 points) Divide and write your answer in standard form $a+b i$.

$$
\frac{8-6 i}{2-i}
$$

2. (3 points) Evaluate the discriminant of the quadratic equation. Use the value of the discriminant to determine whether the quadratic equation has 2 real solutions, 1 repeated real solution, or 2 nonreal complex solutions.

$$
16 x^{2}=8 x-1
$$

3. (4 points) Solve the rational equation.

$$
\frac{4}{x+3}+\frac{x}{x-5}=1
$$

