

Name: \_\_\_\_\_  
Student ID: \_\_\_\_\_

## Quiz 6

**Question 1.** (4 marks) Simplify:

$$2(x-3)^2 + 3(x+3)(x-3)$$

**Question 2.** (4 marks) Divide the following using long division and state what it equals:

$$\frac{4x + 3x^2 - 1}{x - 1}$$

**Question 3.** (2 marks) Factor the out the greatest common factor:

$$15x^5 - 18x^4 + 21x^3 - 48x^2$$