## 3 Classwork 3 MAT 1275 Professor Chiu

Name: 500.

1. Simplify and check at an appropriate value:

$$(4x^{2}-6x+1)-(7x^{2}-8x-2)$$

$$4x^{2}-6x+1-7x^{2}+8x+2$$

$$=4x^{2}-7x^{2}-6x+8x+1+2$$

$$=(4-7)x^{2}+(-6+8)x+3$$

$$=(4-7)x^{2}+2x+3$$

2. Multiply:

$$2y \cdot y + 3y - 15$$

$$= 2y^{2} - 10y + 3y - 15$$

$$= 2y^{2} - 7y - 15$$

$$+3 \cdot y - 15$$

$$+3 \cdot 4$$

$$3 \cdot (-5)$$