## 5 Quiz 5 MAT 1275 Professor Chiu

Name:

- This quiz consists of 2 questions, each worth 5 points, for a total of 10 points.
- You have 10 minutes to complete the quiz.
- Show all work and justify your answers.
- Scientific calculators are allowed.
- Wishing you success.

$$501.$$
 $x^2-2x+3$ 
 $-2x^3-6x$ 
 $-1$ 
 $-x^2-2x-3$ 

$$(x^{2}-2x+3)(-2x-1) = -2x^{3}+4x^{2}-x^{2}-6x+2x^{2}$$

$$(-2x)(-2x)=4x^{2}$$

$$(-2x)\cdot(3)=-6x$$

$$(-1)\cdot(3)=-2x^{3}$$

$$(-1)\cdot(3)=-6x$$

$$(-1)\cdot(3)=-2x^{2}$$

2. Divide  $8x^2y^3 + 12x^3y - 4xy$  by 4xy.

$$(-1)\cdot 3 = -3$$

$$\frac{8x^{2}y^{2}+12x^{2}y^{2}-4x^{2}y^{2}}{4xy} = \frac{8x^{2}y^{3}}{4xy} + \frac{12x^{2}y^{2}}{4xy} - \frac{4x^{2}y^{2}}{4xy}$$

$$= \frac{8x^{2}y^{3}}{4xy} + \frac{12x^{2}y^{2}}{4xy} - \frac{4x^{2}y^{2}}{4xy} - \frac{4x^{2}y^{2}$$