Test 1 Review MAT 1275 Professor Chiu

Name: _____

- This review consists of **7** questions for a total of **100** points.

- You have **60** minutes to complete the review.

- Show all work and justify your answers.

- Scientific calculators are allowed.

- Wishing you success.

Problem 1
$$\text{Divide } 3265 \div 12.$$

Problem 2
Evaluate the expression.
$$\frac{-29}{5} \div 3 - \left(\frac{4}{-3}\right) \times \frac{7}{2} + \frac{3}{5}.$$

Problem 3
Multiply and simplify:
$$(2xy - 1)(x^2y + y + 1)$$

Problem 4
$$\text{Divide } 3x^2y^3 - 15xy^2 + 3xy \text{ by } 3xy.$$

Problem 5
$$\text{Divide } -2x^3 + 3x^2 + 2x - 3 \text{ by } -2x + 1.$$

Problem 6
$$\text{Factor the GCF of } 15x^5y^2 - 20x^3y^4z + 5x^2y^2 \text{ out.}$$

Problem 7
$$\text{Factor } 3x^2 - 2x - 5 \text{ completely.}$$