



StudentName: \_\_\_\_\_

ExamDate: \_\_\_\_\_ ExamScore: \_\_\_\_\_

$$x^3 - 13x^2 + 46x - 48$$

$$x^3 - 4x^2 - 29x - 24$$

$$x^3 + 5x^2 - 42x - 144$$

$$72x^3 + 649x^2 - 81x - 810$$

$$x^3 - 9x^2 + 26x - 24$$

$$6x^2 - 36x$$

$$x^3 - 4x^2 - 2x - 15$$

$$3x^2 - 9x$$

$$48x^3 - 418x^2 + 609x - 245$$

$$3x^2 + 9x$$



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$$x^3 - 13x^2 + 46x - 48$$
$$(x - 3)(x - 2)(x - 8)$$

$$x^3 - 4x^2 - 29x - 24$$
$$(x + 3)(x + 1)(x - 8)$$

$$x^3 + 5x^2 - 42x - 144$$
$$(x - 6)(x + 8)(x + 3)$$

$$72x^3 + 649x^2 - 81x - 810$$
$$(8x + 9)(x + 9)(9x - 10)$$

$$x^3 - 9x^2 + 26x - 24$$
$$(x - 2)(x - 4)(x - 3)$$

$$6x^2 - 36x$$
$$6x(x - 6)$$

$$x^3 - 4x^2 - 2x - 15$$
$$(x - 5)(x^2 + x + 3)$$

$$3x^2 - 9x$$
$$3x(x - 3)$$

$$48x^3 - 418x^2 + 609x - 245$$
$$(6x - 5)(x - 7)(8x - 7)$$

$$3x^2 + 9x$$
$$3x(x + 3)$$