

Juan Manuel MARTINEZ VALENTIN

ALGEBRA
EXAMEN UDS

$$1. (-4x)(5x^3y^2)(-2x^2y)$$

$$-4x^4(5x^3)(-2x^2y)$$

$$-4x^6(5y^3)(-2y)$$

$$-4x^6y^4(5)(-2)(-2) = 40x^6y^4$$

$$-4x^6y^4(-10)$$

$$40x^6y^4$$

$$\underline{40x^6y^4}$$

$$2. (-2a^3bc)(-4a^2b^2c^2)(5abc)(-6abc)$$

$$-2a^3bc(-4b^2c^2)(5bc)(-6b^2c)$$

$$-2a^3b^6c^4(-4c^3)(5c)(56)c$$

$$-2a^3b^6c^4(-4)(5)(-6)$$

$$-2a^3b^6c^4(-4)(-30)$$

$$-2a^3b^6c^4(120)$$

$$A^7B^6C^4(-2)(120)$$

$$\underline{240a^7b^6c^4}$$

$$3. (3A^3 + 5B^2 - 4)(3A)$$

$$AA^3 + 5B^2 - 4)(30)$$

$$AA^3 + 15B^2A - 4)(30)$$

$$AA^3 + 15B^2A - 120$$

$$\underline{AA^3 + 15AB^2 - 120A}$$

$$4. (2/3 A^3 B^2 - 1/4 A^2 B^3 + 5/6 A B^5 - 2/5 B^5)(-1/2 A B^2)$$

$$(2/3)(-1/2)(A^3 B^2)(A B^2) = 1/3 A^4 B^4$$

$$(-1/4)(-1/2)(A^2 B^3)(A B^2) = 1/8 A^3 B^5$$

$$(5/6)(-1/2)(A B^4)(A B^2) = -5/12 A^2 B^6$$

$$(-2/5)(-1/2)(B^5)(A B^2) = 1/5 A B^7$$

$$\underline{1/3 A^4 B^4 + 1/8 A^3 B^5 - 5/12 A^2 B^6 + 1/5 A B^7}$$

UDS

JUAN MANUEL MARTINEZ VANCELOS ALGEBRA EXAMEN

$$5: (x^9 - 2x^7 - 11x^2 + 3x - 80)(x^2 + 3x - 2)$$

$$x^9 + 3x^7 - 2x^7 - 2x^5 - 6x^4 + 4x^3 - 11x^4 - 33x^3 + 22x^2 + 3x + 11x^2 + 6x - 20x^2 - 60x - 40$$

$$6: (x^6 + 5x^4 + 3x^2 - 2x)(x^2 - x + 3)$$

$$x^8 - x^7 + 3x^6 + 5x^6 + 5x^6 - 5x^5 + 15x^4 + 3x^4 - 3x^3 + 9x^2 + 2x + 2x^2 - 6x$$

$$7: (2x^7 - 2x^3 + 3x^2 + 5x + 10)(x + 2)$$

$$2x^8 + 4x^7 - 2x^4 - 4x^3 + 3x^3 + 6x^2 + 5x^2 + 10x + 10x + 20$$

$$2x^8 + 4x^7 - x^3 + 11x^2 + 20x + 20$$