

Josmar Flores

1 $(3a^3 + 5a^2 - 4) : (3A)$

$$a^2 + \frac{5}{3}a - \frac{4}{3}a$$

2 $(\frac{2}{3}a^2b^2 - \frac{1}{4}a^2b^4 + \frac{5}{6}ab^4 - \frac{2}{5}b^5) : (-\frac{1}{2}ab^2)$

$$-\frac{4}{3}a + \frac{3}{4}ab^2 - \frac{10}{6}b^2 + \frac{4}{5}ab^3$$

3 $(x^4 - 2x^3 - 11x^2 + 30x - 20) : (x^2 + 3x - 2)$

$$x^2 - 2x - 11 + 30x - 20x^2 + \frac{1}{3}x^3 - \frac{2}{3}x^2 - \frac{11}{3}x + 10 - \frac{20}{3}x - 2x^4 + x^3 + \frac{11}{2}x^2 - 15x + 10$$

$$-2x^4 + \frac{4}{3}x^3 - \frac{5}{6}x^2 + \frac{8}{3}x + 11$$

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

$$x^4 + 5x^2 + 3a - 2x - x^5 - 3 - 2 + \frac{1}{3}x^6 + \frac{5}{5}x^4 + x^7 - \frac{2}{3}x + \frac{1}{3}x^6 - x^5 + \frac{8}{3}x^4 - 5x^3 + 6x^2 - \frac{17}{3}x + 1$$

5 $(2x^4 - 2x^3 + 3x^2 + 5x + 10) : (x + 2)$

$$2x^3 - 2x^2 + 3x + 5 + 10x + x^4 - x^3 + \frac{3}{2}x^2 + \frac{5}{2}x + 5$$

$$x^4 + x^3 - 2x^2 + \frac{3}{2}x + 10$$

6 Calcula el volumen de un cubo de arista $x + 2$

$$(x + 2)(x + 2)(x + 2)$$

$$x^2 + 2x + x^2 + 2x + 4 + x^2 + 2x + 2x + 4$$

$$3x^2 + 12x + 16$$