

Division of Polynomials

Dividing a Polynomial by a Monomial

Ex 1.

Divide: $(16x^3 - 32x^2 + 2x + 4) \div 4x$

Long Division

Ex 2.

Divide $3x^2 - 14x + 16$ by $x - 2$

Ex 3.

Divide $-9 + 7x - 4x^2 + 4x^3$ by $2x - 1$

Ex 4.

Divide $2x^4 + 3x^3 - 7x - 10$ by $x^2 - 2x$

Ex 5.

Divide $18x^4 + 9x^2 + 3x + 2$ by $3x^2 + 1$

Practice

1. Divide $15x^4y^5 - 5x^3y^4 + 10x^2y^2$ by $5x^2y^3$
 2. Divide $2x^2 + x - 9$ by $x - 2$
 3. Divide: $(2x^3 + 13x^2 + 9x - 6) \div (2x + 3)$
 4. Divide: $(3x^5 - x^3 + 4x^2 - 12x - 8) \div (x^2 - 2)$
- Q: What part of your body disappears when you stand up?