

Opening Rvw polys oper, parts, min mix xint, roots, factors, intersect, eb, eval, remain

Simplify each expression and write in standard form.

1) $b - 5 + 2b + 2$

2) $(7p + 4) - (4p + 7p^2 - 2)$

3) $-5n(6n^2 - 4n - 7)$

Write the polynomial in standard form. Identify the degree, leading coefficient, and constant.

4) $-1 - 6x^2 - 10x^3 - 9x$

Write the following polynomial as a product of linear factors.

5) $f(x) = 5x^3 + 6x^2 - 48x + 32; x - 2$

Use the remainder theorem to determine if the root is a factor.

6) $f(x) = 3x^2 - 9x + 6$ at $x = 2$

Write a polynomial function in standard form that has the given zeros.

7) $-4, -3, -2$

Divide and then determine if () is a factor.

8) $(n^3 - 11n^2 + 13n + 37) \div (n - 9)$