

Polynomials Quick Quiz Review Problems

1. Write each polynomial in standard form. Then classify according to degree and number of terms.

A. $s^2(s^4 + 3s - 2) - (4s^5 + 9s + 2)$

B. $(8m^4 - 2m^3b^2 + 10mb^2) - (4m^3b^2 + 8m^4)$

2. Factor each polynomial completely. Then state the zeros, as well as their multiplicity.

A. $x^4(x + 3)^5 - 81(x + 3)^5$

B. $3x^3 - 6x^2 - 16x$

3. Write a polynomial in factored form and standard form with integer coefficients that has zeros as stated. A

A. Zeros: i (M.1), $\frac{3}{5}$ (M.2)

B. Zeros: $-\frac{1}{2}$ (M.1) and -7 (M.3)

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