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Week 5 - Class 2

October 1, 2014

Question 1

Consider the polynomial factored as $x(x-2)^2(x-1)$. The roots are:

      A 1 with multiplicity 1, and 2 with multiplicity 2.

      B 1 with multiplicity 1, and 2 with multiplicity 1.

      C -1 with multiplicity 1, and -2 with multiplicity 1.

      D 0 with multiplicity 1, -1 with multiplicity 1, and -2 with multiplicity 2.

      E 0 with multiplicity 1, 1 with multiplicity 1, and 2 with multiplicity 2.

Question 1

Consider the polynomial $P(x) = 3x^4 - 5x^3 - x^2 - 8x + 4$. Then $P(-x)$ is:

A $3x^4 - 5x^3 - x^2 - 8x + 4$.

B $3x^4 + 5x^3 - x^2 + 8x + 4$.

C $-3x^4 - 5x^3 - x^2 - 8x - 4$.

D $3x^4 + 5x^3 + x^2 + 8x + 4$.

E $-3x^4 + 5x^3 - x^2 + 8x - 4$.