

Math Worksheet: Polynomials

Match the polynomial functions to the graphs:

1. $(x+1)(x-1)^2(x+2)^2$
2. $-(x+1)^2(x-1)^2(x-3)$
3. $-(x+1)(x-1)^4$
4. $(x+1)(x-1)^3(x-3)$
5. $(x+1)^2(x-1)^3$
6. $(x+1)^2(1-x)(x-3)^2$

Solution.

All given polynomials have degree 5.

(1): two zeros of multiplicity (2) and a single zero - leading coefficient positive \rightarrow (B)(2): two zeros of multiplicity (2) and a single zero - leading coefficient negative \rightarrow (F)(3): 1 single zero, 1 zero of multiplicity 4, leading coefficient negative. \rightarrow (A)(4): 2 single zeros, one zero of multiplicity 3, leading coefficient positive \rightarrow (D)(5): 1 zero multiplicity 2 and 1 zero multiplicity 3. leading coefficient positive \rightarrow (C)Free From www.analyze-math.com

(6) 1 zero multiplicity 2
 1 zero " (2)
 1 single zero
 leading coefficient negative \rightarrow (E).

