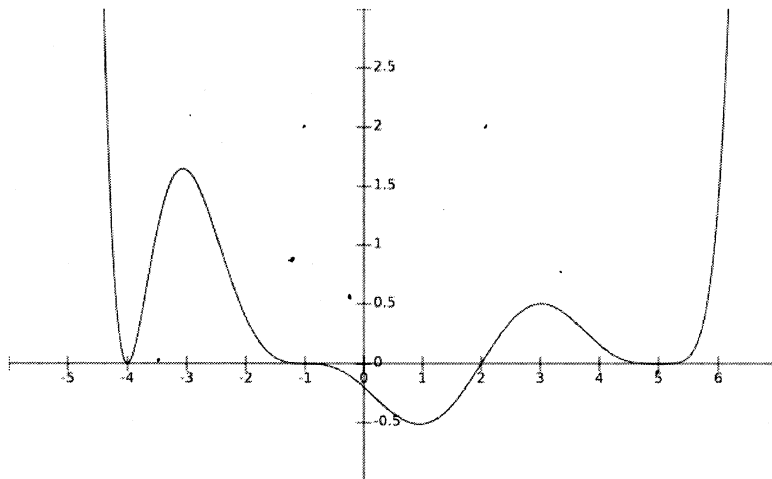


44. The graph of a polynomial is shown below.



(a) Is the degree even or odd?

Up LEFT / Up RIGHT \Rightarrow **EVEN DEGREE**

(b) Is the leading coefficient positive or negative?

POSITIVE

(c) Which zeros have multiplicity one?

$x = 2$

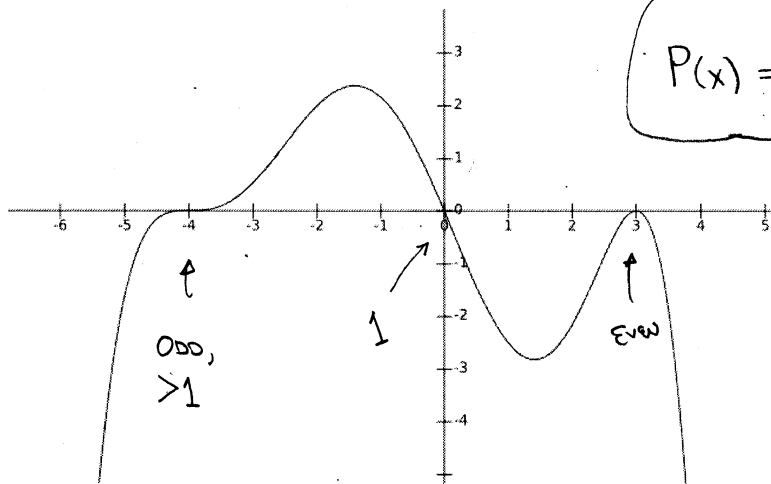
(d) Which zeros have even multiplicity?

$x = -4, x = 5$

(e) Which zeros have odd multiplicity greater than 1?

$x = -1$

45. Give the factored form of a polynomial whose graph has the same general shape of the one given below.



$P(x) = (x+4)^3(x)(x-3)^2$