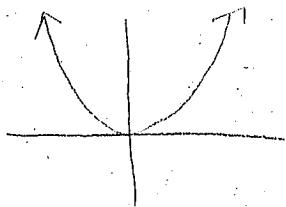
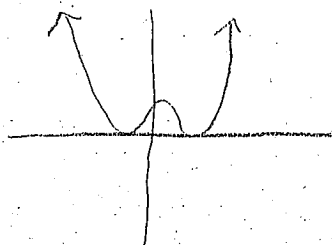


Graph each function without using a grapher.

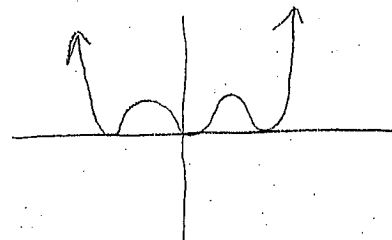
1) $f(x) = x^2$



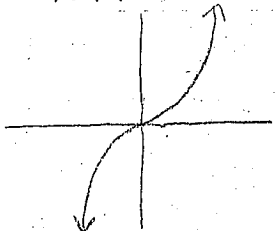
2) $f(x) = x^4$



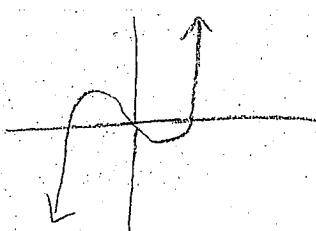
3) $f(x) = x^6$



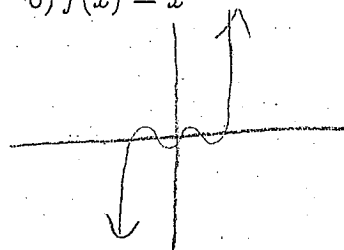
4) $f(x) = x^3$



5) $f(x) = x^5$

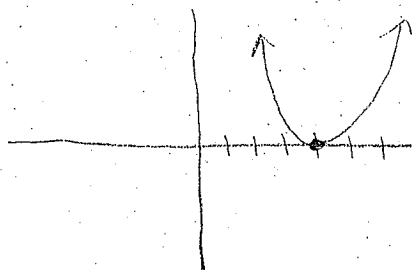


6) $f(x) = x^7$

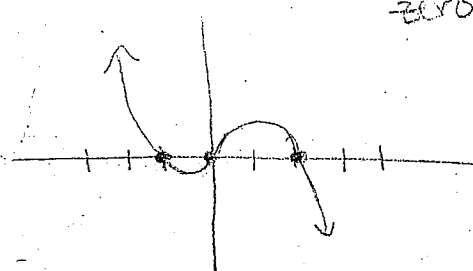


Graph each polynomial function without a grapher. Clearly mark the zeros and state its multiplicity.

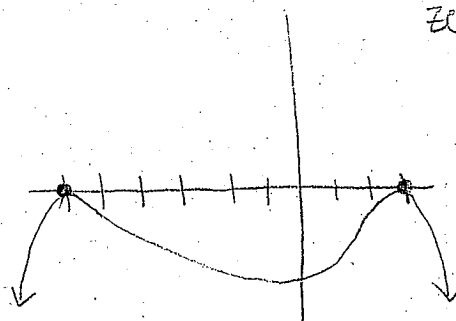
7) $f(x) = (x - 4)^2$ degree: 2 zeros: 4



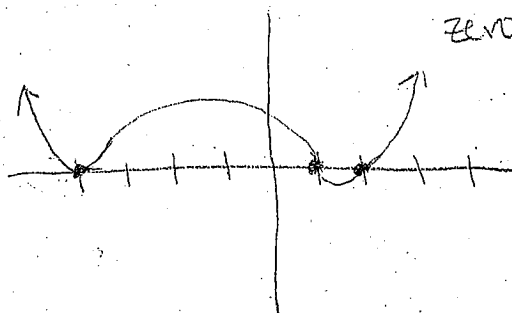
8) $f(x) = -x(x - 2)(x + 1)$ degree: 3
zeros: 0, 2, -1



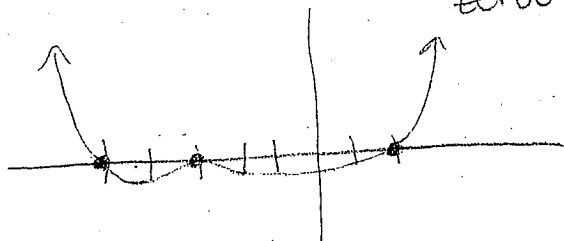
9) $f(x) = -(x + 6)^2(x - 3)^2$ degree: 4
zeros: -6, 3



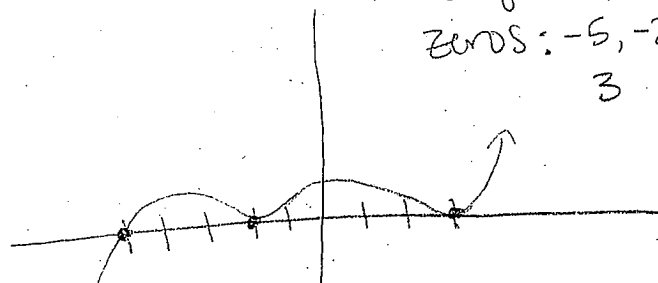
10) $g(x) = (x - 1)^3(x + 4)^2(x - 2)$ degree: 6
zeros: 1, -4, 2



11) $h(x) = (x + 3)^2(x - 2)^3(x + 5)$ degree: 6
zeros: -3, 2, -5

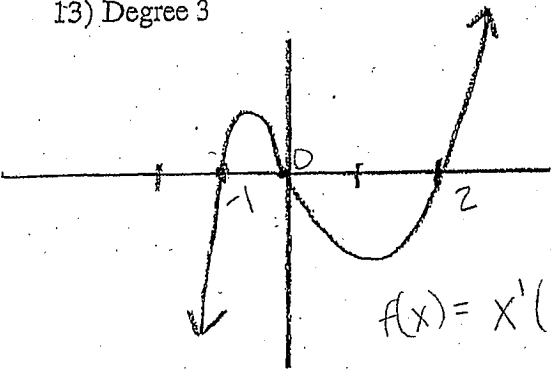


12) $g(x) = (x + 5)(x + 2)^2(x - 3)^4$ degree: 7
zeros: -5, -2, 3



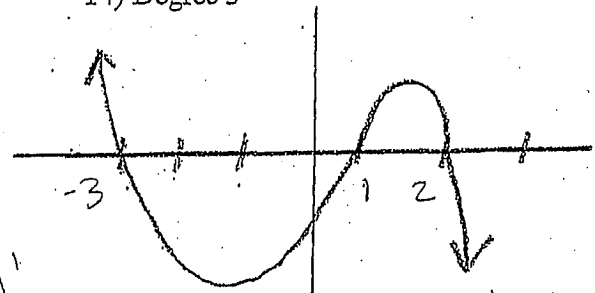
Determine an equation for the polynomial graph pictured below.

13) Degree 3



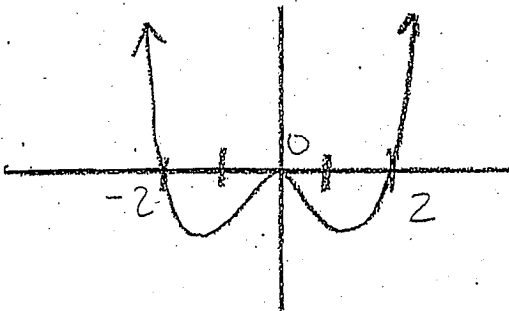
$$f(x) = x^1(x+1)^1(x-2)^1$$

14) Degree 3



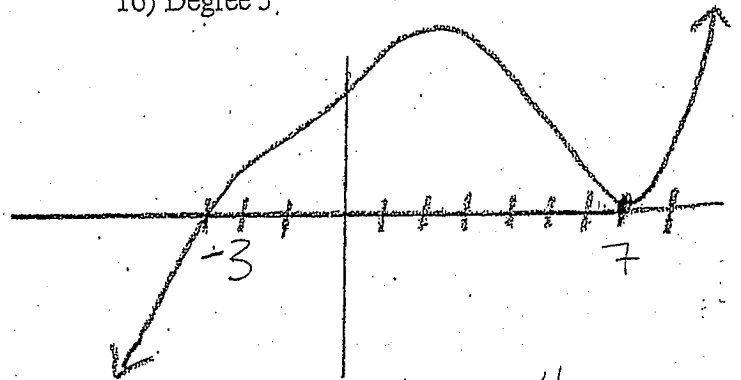
$$f(x) = (x+3)^1(x-1)^1(x-2)^1$$

15) Degree 4



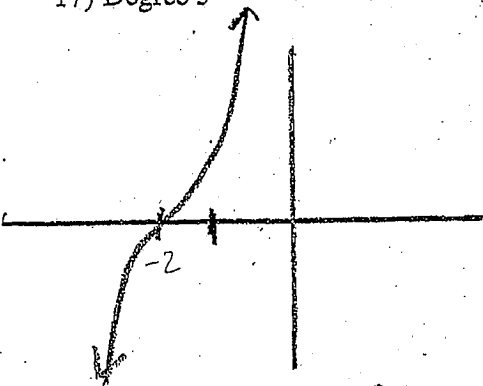
$$f(x) = x^2(x+2)^1(x-2)^1$$

16) Degree 5



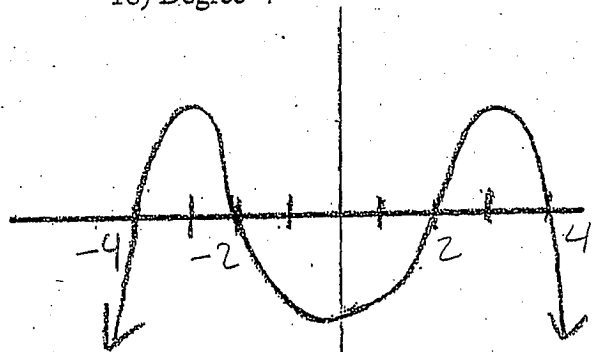
$$f(x) = (x+3)^1(x-7)^4$$

17) Degree 3



$$f(x) = (x+2)^3$$

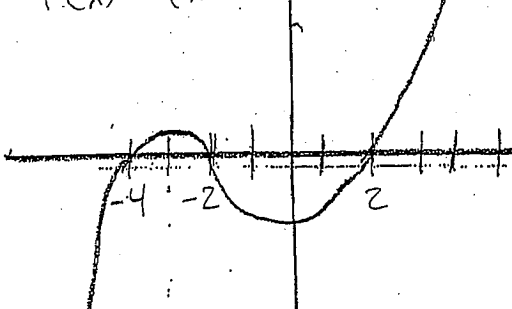
18) Degree 4



$$f(x) = (x+4)^1(x+2)^1(x-2)^1(x-4)^1$$

19) Degree 5

$$f(x) = (x+4)^1(x+2)^1(x-2)^1$$



19) Degree 6

$$f(x) = (x+7)^1(x+5)^1(x+3)^1(x+1)^1(x-1)^1(x-3)^1$$

