







y = -i(x+8)(-x+8) $\frac{1}{vertexis(0,-8)}$ V:(-8,0)













## G Core Concept

## **Factors and Zeros**

For any factor x - n of a polynomial, n is a zero of the function defined by the polynomial.









The graph represents a cubic function. Write the function. 3d daree f(x) = a(x-0) (x-2)(x-5) f(x) = a (x-0) (x-2)(x-5) f(x) = a (x-2)(x-5) f(x) = -3a(-2) f(x) = -6a a = -2 f(x) = -2x(x-2)(x-5)



The zeros of a cubic function are -3, -1, and 1. The graph of the function passes through the point (0, -3). Write the function. Y=a +1 Y= a a= (X+3)



