

Determine the zeros, multiplicity and intersection for each of the following

1. $f(x) = x(x + 1)(x + 3)$

Zero	Multiplicity	Intersection

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

Zero	Multiplicity	Intersection

3. $f(x) = -x(x - 2)^2$

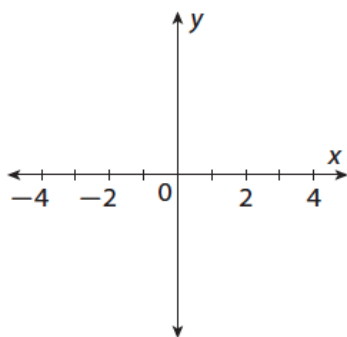
Zero	Multiplicity	Intersection

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

Zero	Multiplicity	Intersection

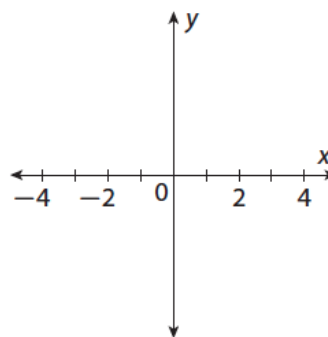
Sketch the graph the polynomial function.

5. $f(x) = x^2(x - 2)$



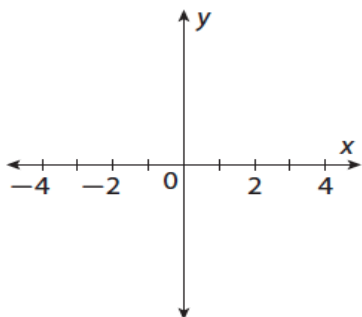
Zero	Multiplicity	Intersection

6. $f(x) = -(x + 1)(x - 2)(x - 3)$



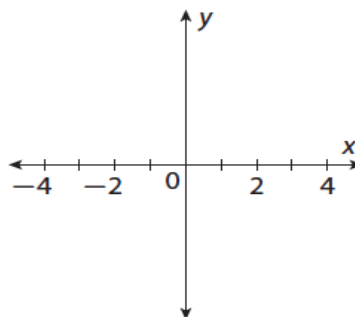
Zero	Multiplicity	Intersection

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



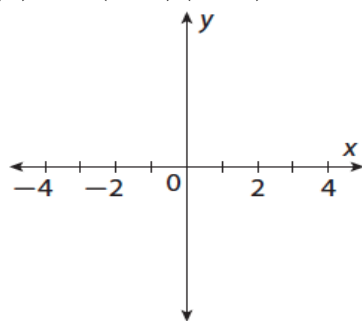
Zero	Multiplicity	Intersection

8. $f(x) = -(x+3)^2(x+1)^3(x-4)$



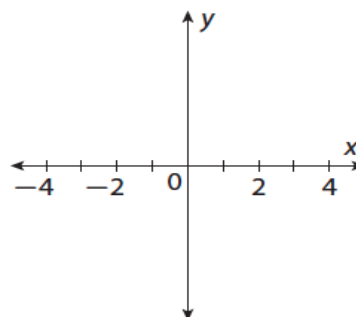
Zero	Multiplicity	Intersection

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



Zero	Multiplicity	Intersection

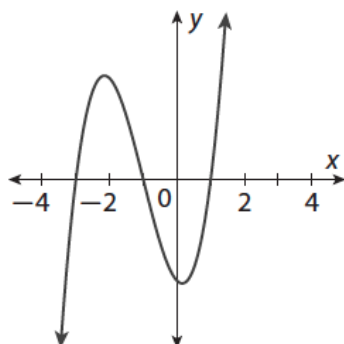
10. $f(x) = x(x-2)(x+5)$



Zero	Multiplicity	Intersection

Write the equation for the given graph.

11.



12.

