

## Practice

**Graphing Polynomial Functions and Approximating Zeros****Approximate the real zeros of each function to the nearest tenth.**

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

2.  $f(x) = x^3 - 7x + 6$

3.  $f(x) = x^3 + 6x^2 + 11x + 3$

4.  $f(x) = x^3 - 6x^2 + 8x - 2$

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

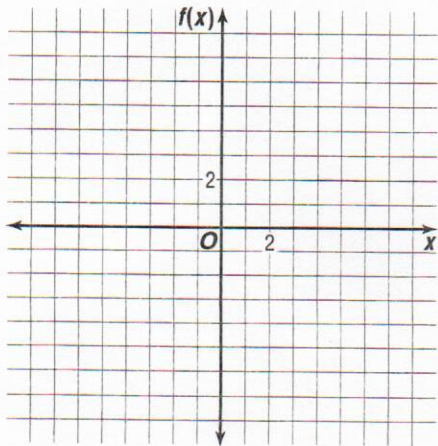
6.  $f(x) = x^3 + x^2 - x + 15$

7.  $f(x) = x^4 - 2x^3 + 2x^2 - 5x + 4$

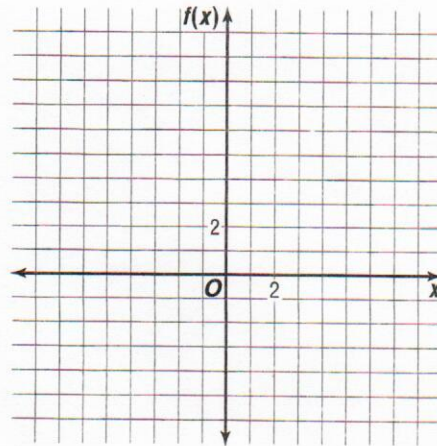
8.  $f(x) = x^6 + 2x^4 - x^2 - 4$

**Graph each function.**

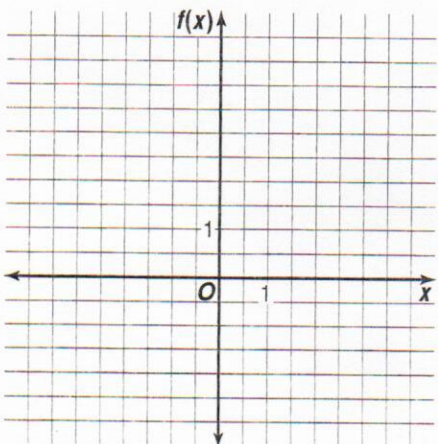
9.  $f(x) = (x - 2)^3$



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



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



12.  $f(x) = x^4 - 9x^2$

