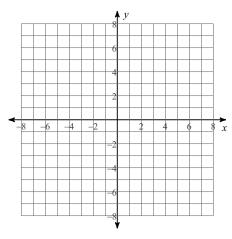
Practice - find x-int, min, max, eval, lc, deg, const, sf, multi, write given zeros

After sketching the graph, determine the zero (x-intercept), the minimum and the maximum for the function. Use technology.

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



Evaluate each function at the given value.

2)
$$f(x) = 3x^3 + 11x^2 + 7x$$
 at $x = -3$

3)
$$f(x) = 2x^3 - 4x^2 - x - 2$$
 at $x = 2$

Identify the degree, leading coefficient, and constant value of each of the following polynomials

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

5)
$$f(x) = 3x^4 - x^2 - 42$$

Find all values of that make the equation true.

6)
$$(x-4)(x+3)=0$$

7)
$$(x+5)(x-5)=0$$

Rewrite the following in standard form.

8)
$$n^2 - 8n^3 + 4n$$

9)
$$3 + v^4 + 9v^2 + 6v + 10v^3$$

Multiply and write your final answer in standard form.

10)
$$(5n-5)(2n-3)$$

11)
$$5r(5r^2+4r+4)$$

Find the x-intercepts of the following polynomials.

12)
$$(x-2)(x+2)=0$$

13)
$$(x+4)(x-5)=0$$

Write a polynomial function that has the given zeros.

14) 3,
$$\frac{2}{3}$$
, -4