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

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

5. 
$$f(x) = -\frac{1}{4}x^4 + 3x^2$$

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

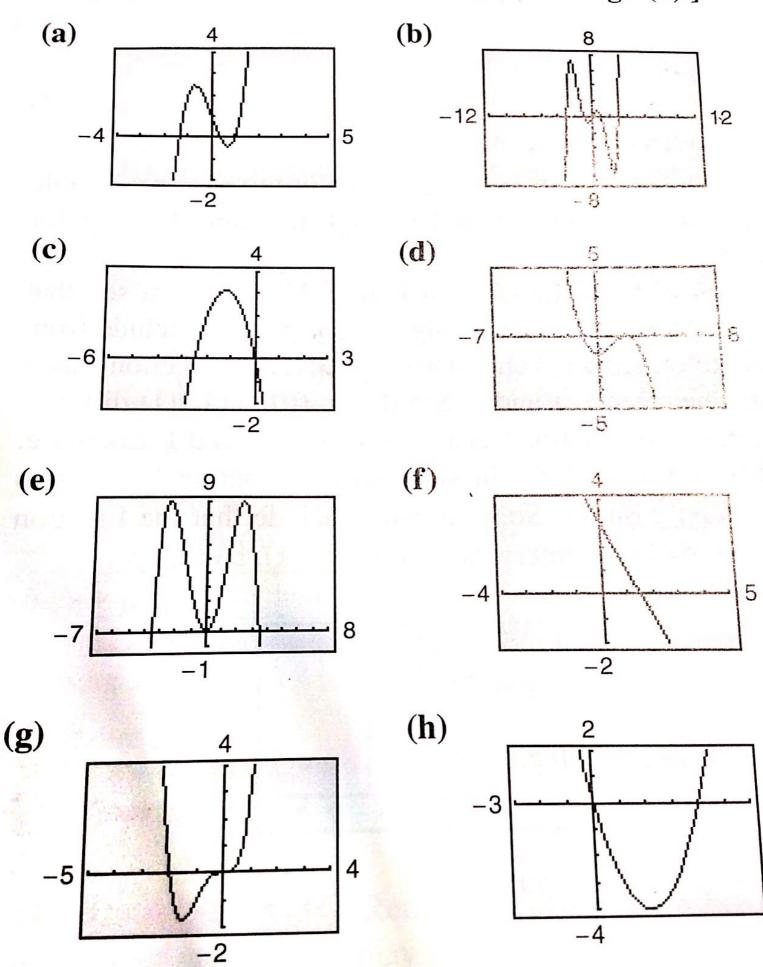
2. 
$$f(x) = x^2 - 4x$$

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

**6.** 
$$f(x) = -\frac{1}{3}x^3 + x^2 - \frac{4}{3}$$

**8.** 
$$f(x) = \frac{1}{5}x^5 - 2x^3 + \frac{9}{5}x^5$$

In Exercises 1–8, match the polynomial function with its graph. [The graphs are labeled (a) through (h).]



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In Exercises 47–50, use a graphing utility to graph the function and approximate (accurate to three decimal places) any real zeros and relative extrema.

**47.** 
$$f(x) = 2x^4 - 6x^2 + 1$$
  
**49.**  $f(x) = x^5 + 3x^3 - x + 6$