

Notes:

(a) For graphing problems, find all relative extreme values, concavity, inflection points and asymptotes of the function.

(b) Recall that the graph of a function is symmetric with respect to the  $y$  axis if  $f(x) = f(-x)$  for all  $x$  in the domain of  $f$ . Also, the graph of  $f$  is symmetric with respect to the origin if  $f(-x) = -f(x)$  for all  $x$  in the domain of  $f$ . For graphs, include symmetry with respect to the  $y$  axis or the origin, if it exists.

(c) Under what conditions on a function can there be symmetry with respect to the  $x$  axis?

Example 1: Let  $f(x) = x^4 - 2x^2 + 2$ . Sketch the graph of  $f$ , and indicate any relative extreme values, concavity, inflection points, asymptotes, and symmetry.

Solution: Let us first mention that the graph of  $f$  is symmetric with respect to the  $y$  axis, since there are only even powers of  $x$  in its formula. Next, note that  $f'(x) = 4x^3 - 4x$  and  $f''(x) = 12x^2 - 4$ . Then  $f'(x) = 4x(x^2 - 1) = 0$  if  $x = -1, 0$ , or  $1$ . Since  $f''(-1) > 0$  and  $f''(1) > 0$ , it follows that  $f(-1) = 1$  and  $f(1) = 1$  are relative minimum values. Analogously,  $f''(0) < 0$  implies that  $f(0) = 2$  is a relative maximum value. Next, we see that  $f''(x) = 4(3x^2 - 1) = 0$  if  $x = \pm 1/\sqrt{3}$ . Then we find that the graph of  $f$  is concave upward on  $(-\infty, -1/\sqrt{3})$  and on  $(1/\sqrt{3}, \infty)$ , and is concave downward on  $(-1/\sqrt{3}, 1/\sqrt{3})$ . Therefore the inflection points for  $f$  are  $(\pm 1/\sqrt{3}, 13/9)$ . Finally, there are no vertical or horizontal asymptotes for  $f$ . Now to the graph of  $f$ .

Example 2: Let  $g(x) = x^3 - 3x$ . Sketch the graph of  $g$ , and indicate any relative extreme values, concavity, inflection points, asymptotes, and symmetry.

Solution: First we note that the graph is symmetric with respect to the origin since  $g(-x) = -g(x)$ . Next,  $g'(x) = 3x^2 - 3 = 3(x^2 - 1)$ , and  $g''(x) = 6x$ . Therefore  $g'(x) = 0$  if  $x = \pm 1$ . Since  $g''(1) > 0$ , it follows that  $g(1) = -2$  is a relative minimum value of  $g$ . By the symmetry with respect to the origin,  $g(-1) = 2$  is a relative maximum value of  $g$ . Since  $g''(x) = 6x$ , the graph is concave downward on  $(-\infty, 0)$  and is concave upward on  $(0, \infty)$ . It follows that  $(0, 0)$  is an inflection point. There are no asymptotes, and it is time to sketch the graph.

Example 3: Let  $h(x) = \frac{x}{(x+3)^2}$ . Sketch the graph of  $h$ , and indicate any relative extreme values, concavity, inflection points, asymptotes, and symmetry.

Solution: For this example, there is no symmetry with respect to the  $y$  axis or the origin. Next,

$$h'(x) = \frac{(x+3)^2(1) - 2x(x+3)}{(x+3)^4} = \frac{3-x}{(x+3)^3} \quad \text{and} \quad h''(x) = \frac{(x+3)^2(-1) - (3-x)2(x+3)^2}{(x+3)^6} = \frac{2(x-6)}{(x+3)^4}.$$

Now  $h'(x) = 0$  if  $x = 3$ , and since  $h''(3) < 0$ , it follows that  $h(3) = 1/12$  is a relative maximum value. Next, the graph of  $h$  is concave upward on  $(6, \infty)$ , and is concave downward on  $(-\infty, -3)$  and  $(-3, 6)$ . Thus  $(6, 2/27)$  is an inflection point. As for asymptotes, the line  $x = -3$  is a vertical asymptote, and since

$\lim_{x \rightarrow \pm\infty} h(x) = \lim_{x \rightarrow \pm\infty} \frac{x}{(x+3)^2} = 0$ , the line  $y = 0$  is a horizontal asymptote. Now to the graph.

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