





<p><b>DESCRIPTION OF FUNCTION</b> The function has local maxima at <math>x = -2</math> and <math>x = 2</math>.</p> <p>f1</p>	<p><b>DESCRIPTION OF FUNCTION</b> This function has four critical points.</p> <p>f2</p>
<p><b>DESCRIPTION OF FUNCTION</b> This odd function has a triple root at <math>x = 0</math>, as well as roots at <math>x = 4</math> and <math>x = -4</math>.</p> <p>f3</p>	<p><b>DESCRIPTION OF FUNCTION</b> This is the graph of an absolute value function.</p> <p>f4</p>
<p><b>DESCRIPTION OF FUNCTION</b> This is the graph of a linear function.</p> <p>f5</p>	<p><b>DESCRIPTION OF FUNCTION</b> This function has critical points at <math>x = -2</math>, <math>x = 1</math>, and <math>x = 3</math>.</p> <p>f6</p>
<p><b>DESCRIPTION OF FUNCTION</b> On this graph, <math>x = -2</math> is both a root of the function and a critical point.</p> <p>f7</p>	<p><b>DESCRIPTION OF FUNCTION</b> This function has a horizontal asymptote at <math>y = 0</math>.</p> <p>f8</p>
<p><b>DESCRIPTION OF FUNCTION</b> This is the graph of a quadratic function with a negative leading coefficient.</p> <p>f9</p>	<p><b>DESCRIPTION OF FUNCTION</b> This function never decreases.</p> <p>f10</p>
<p><b>DESCRIPTION OF FUNCTION</b> This function has a point of inflection at <math>x = 0</math>.</p> <p>f11</p>	<p><b>DESCRIPTION OF FUNCTION</b> This even function is decreasing when <math>x &lt; 0</math>, and increasing when <math>x &gt; 0</math>.</p> <p>f12</p>

<p><b>DESCRIPTION OF DERIVATIVE</b> The graph of this derivative is not positive for all <math>x</math> in <math>[-3, 3]</math>, and is symmetric to the <math>y</math>-axis.</p> <p>d1</p>	<p><b>DESCRIPTION OF DERIVATIVE</b> The graph of this derivative is positive when <math>x &lt; 0</math> and is negative when <math>x &gt; 0</math>.</p> <p>d2</p>
<p><b>DESCRIPTION OF DERIVATIVE</b> The graph of the derivative is negative and constant for all <math>x</math>.</p> <p>d3</p>	<p><b>DESCRIPTION OF DERIVATIVE</b> The graph of this derivative is a cubic polynomial with a positive leading coefficient.</p> <p>d4</p>
<p><b>DESCRIPTION OF DERIVATIVE</b> This derivative graph is a line that has a positive slope.</p> <p>d5</p>	<p><b>DESCRIPTION OF DERIVATIVE</b> The slope of this graph is always equal to <math>-2</math>.</p> <p>d6</p>
<p><b>DESCRIPTION OF DERIVATIVE</b> The derivative is positive when <math>x &lt; -2</math> and when <math>0 &lt; x &lt; 2</math>, and is negative everywhere else.</p> <p>d7</p>	<p><b>DESCRIPTION OF DERIVATIVE</b> The derivative is always greater than or equal to zero.</p> <p>d8</p>
<p><b>DESCRIPTION OF DERIVATIVE</b> This derivative has the general form <math>y = ax^2 + bx + c</math>, <math>a &lt; 0</math>.</p> <p>d9</p>	<p><b>DESCRIPTION OF DERIVATIVE</b> This derivative graph is an even function with a local maximum at <math>x = 0</math>.</p> <p>d10</p>
<p><b>DESCRIPTION OF DERIVATIVE</b> This graph of the derivative is positive when <math> x  &gt; 2</math>.</p> <p>d11</p>	<p><b>DESCRIPTION OF DERIVATIVE</b> The graph of this derivative is undefined when <math>x = 0</math>, but is constant for <math>x &lt; 0</math> and for <math>x &gt; 0</math>.</p> <p>d12</p>