

State the degree, leading coefficient, and end behavior. Then match it to its graph.

Polynomial Function	Degree	Leading Coefficient	End Behavior	Matching Graph
#1. $f(x) = \frac{5}{6}(x+1)^2(x-1)(x-4)$				
#2. $f(x) = x^4 - 2x^2 + 1$				
#3. $f(x) = -3x^5 + 2x^2 - 7x + 1$				
#4. $f(x) = x^3 - 5x$				
#5. $f(x) = -2x^4 + 4x^2 - 2$				
#6. $f(x) = x^5 - 2x^2 + 4$				

Graph a



Even or Odd Degree?

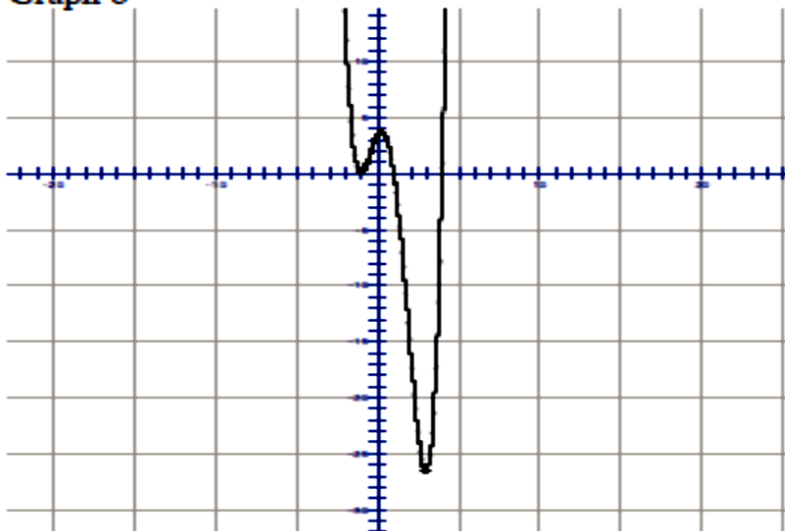
Positive or Negative Leading Coefficient?

End Behavior:

$x \rightarrow -\infty$, $y \rightarrow$

$x \rightarrow \infty$, $y \rightarrow$

Graph b



Even or Odd Degree?

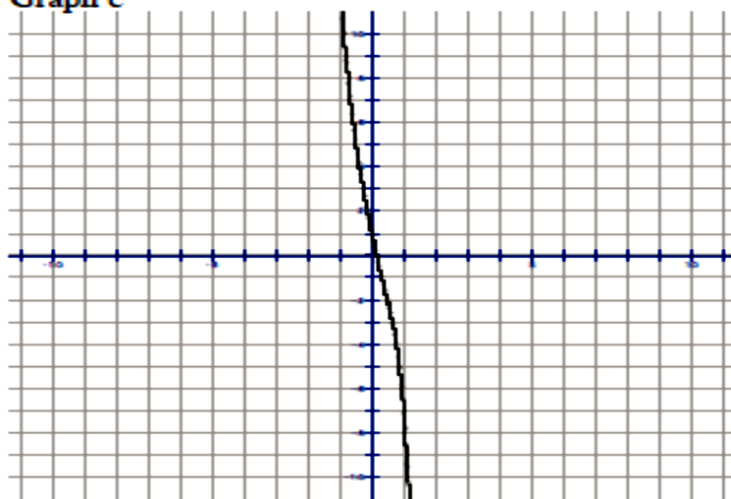
Positive or Negative Leading Coefficient?

End Behavior:

$x \rightarrow -\infty$, $y \rightarrow$

$x \rightarrow \infty$, $y \rightarrow$

Graph c



Even or Odd Degree?

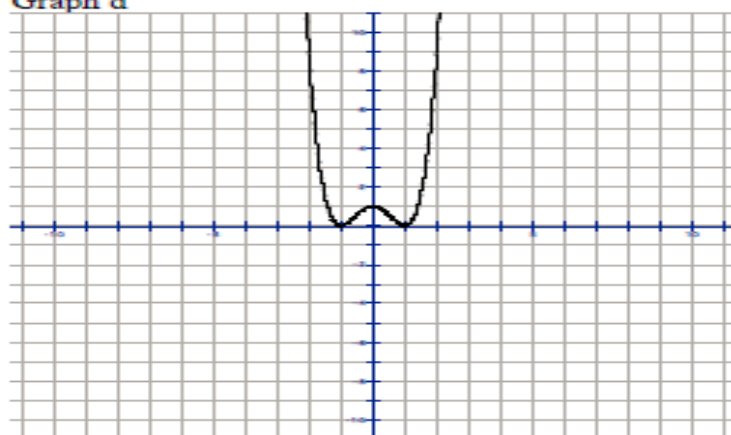
Positive or Negative Leading Coefficient?

End Behavior:

$$x \rightarrow -\infty, y \rightarrow$$

$$x \rightarrow \infty, y \rightarrow$$

Graph d



Even or Odd Degree?

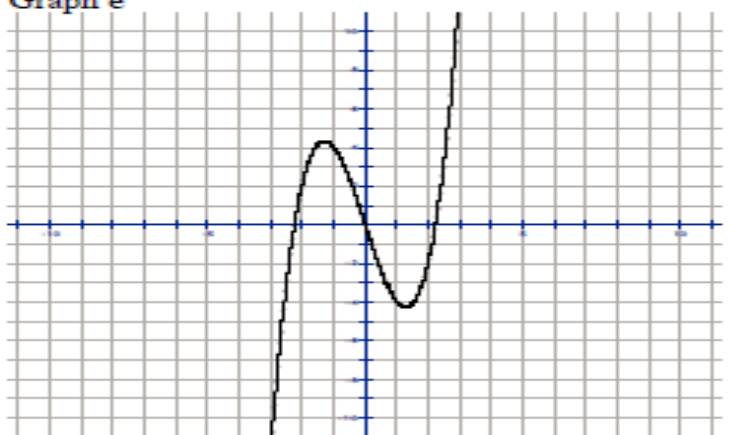
Positive or Negative Leading Coefficient?

End Behavior:

$$x \rightarrow -\infty, y \rightarrow$$

$$x \rightarrow \infty, y \rightarrow$$

Graph e



Even or Odd Degree?

Positive or Negative Leading Coefficient?

End Behavior:

$$x \rightarrow -\infty, y \rightarrow$$

$$x \rightarrow \infty, y \rightarrow$$

Graph f



Even or Odd Degree?

Positive or Negative Leading Coefficient?

End Behavior:

$$x \rightarrow -\infty, y \rightarrow$$

$$x \rightarrow \infty, y \rightarrow$$

<p>Degree:</p> <p>Leading Coefficient:</p> <p>As $x \rightarrow -\infty, y \rightarrow$</p> <p>As $x \rightarrow +\infty, y \rightarrow$</p>	<p>Degree:</p> <p>Leading Coefficient:</p> <p>As $x \rightarrow -\infty, y \rightarrow$</p> <p>As $x \rightarrow +\infty, y \rightarrow$</p>
<p>Degree:</p> <p>Leading Coefficient:</p> <p>As $x \rightarrow -\infty, y \rightarrow$</p> <p>As $x \rightarrow +\infty, y \rightarrow$</p>	<p>Degree:</p> <p>Leading Coefficient:</p> <p>As $x \rightarrow -\infty, y \rightarrow$</p> <p>As $x \rightarrow +\infty, y \rightarrow$</p>

