

$$y = x^3 - x^2 - 12x$$

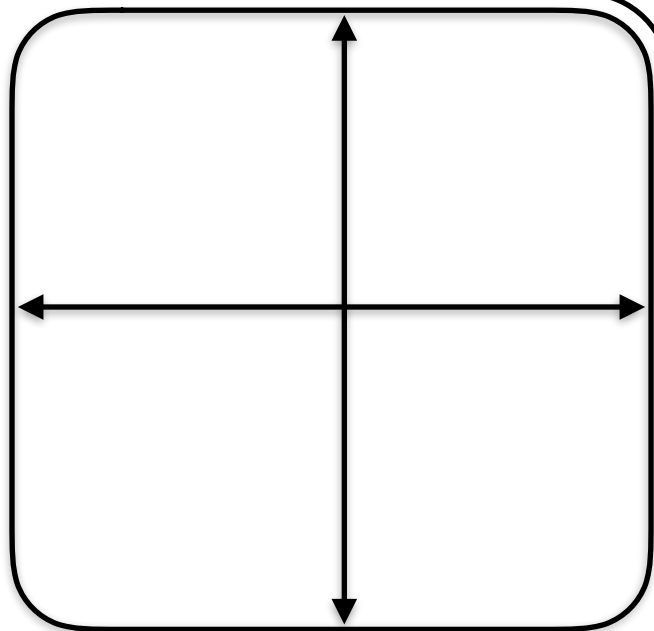
The ***x-intercepts*** of the polynomial are:

The ***y-intercept*** of the polynomial is: _____

The ***end behavior*** of the polynomial is

if $x \rightarrow \infty$ then $y \rightarrow$ _____

if $x \rightarrow -\infty$ then $y \rightarrow$ _____



How are the two graphs on this page *similar* and *different*?

$$y = x^4 - x^3 - 12x^2$$

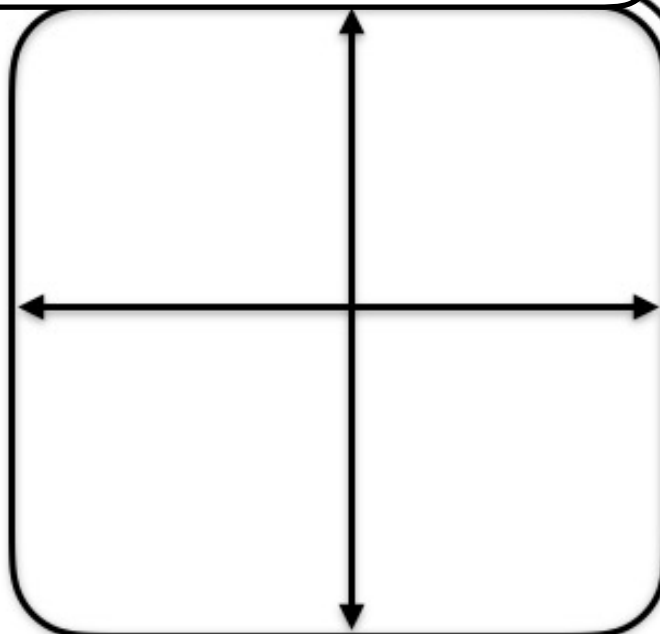
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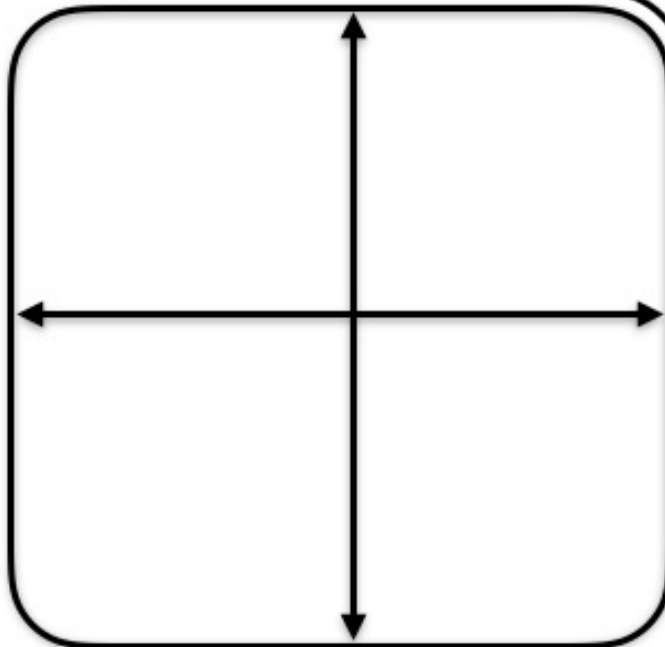
$$y = -2x^4 + 6x^3$$

The ***x-intercepts*** of the polynomial are:

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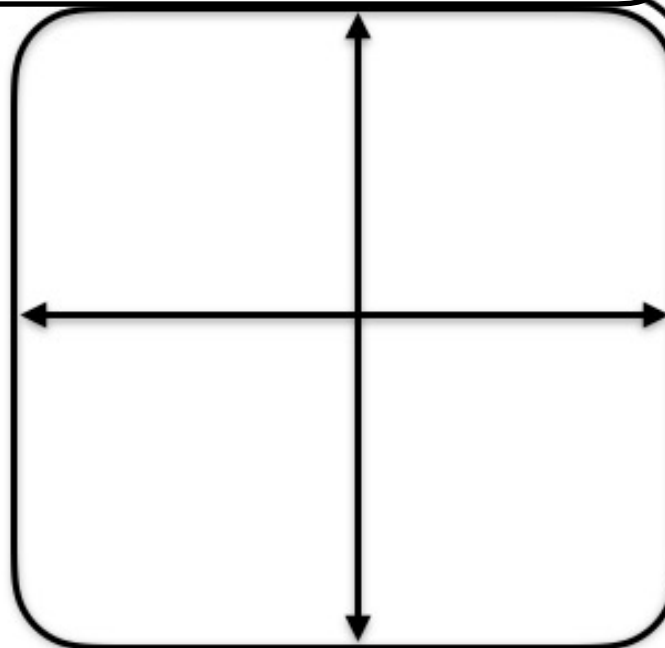
$$y = -2x^3 + 6x^2$$

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$$y = x^5 - 9x^3$$

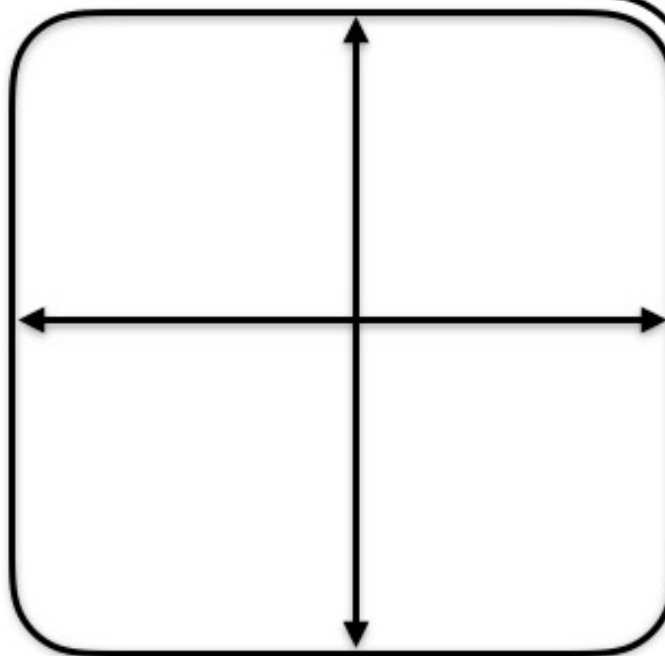
The *x-intercepts* of the polynomial are:

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The *end behavior* of the polynomial is

if $x \rightarrow \infty$ then $y \rightarrow$ _____

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$$y = x^6 - 15x^4$$

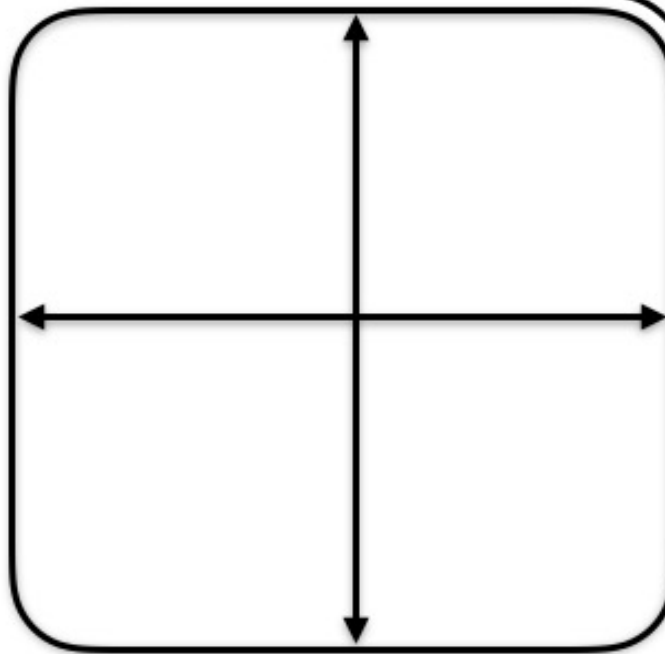
The *x-intercepts* of the polynomial are:

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if $x \rightarrow \infty$ then $y \rightarrow$ _____

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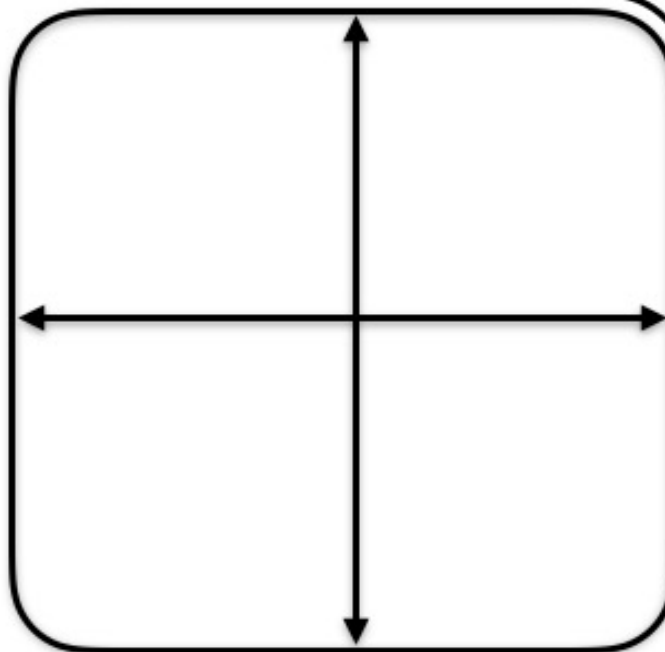
$$y = x^3 - 4x^2 - 6x$$

The ***x-intercepts*** of the polynomial are:

The ***y-intercept*** of the polynomial is: _____

The ***end behavior*** of the polynomial is
if $x \rightarrow \infty$ then $y \rightarrow$ _____

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How are the two graphs on this page *similar* and *different*?

$$y = x^6 - 4x^5 - 6x^4$$

The ***x-intercepts*** of the polynomial are:

The ***y-intercept*** of the polynomial is: _____

The ***end behavior*** of the polynomial is
if $x \rightarrow \infty$ then $y \rightarrow$ _____

if $x \rightarrow -\infty$ then $y \rightarrow$ _____

