
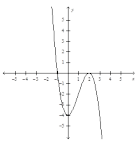


If your answer was...

$$3x^2 - x - 4 + \frac{5}{x+1}$$


Find the answer to...


For the graph below the leading coefficient **Must** be



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If your answer was...

negative




Find the answer to...

Is $x - 2$ a factor of $x^4 - x^3 - 7x^2 + x + 6$?

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If your answer was...

NO at $x = -2$ is a factor




Find the answer to...

Use the Binomial Theorem and Pascal's Triangle to expand $(x - 3)^3$

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If your answer was...

$$x^3 - 9x^2 + 27x - 27$$


Find the answer to...


Which product results in $x^2 + 25$?

a) $(x + 5)^2$ b) $(x + 5)(x - 5)$ c) neither

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If your answer was...

c) neither




Find the answer to...

$f(x) = x^4 - 256$ is a polynomial, how many zeros does $f(x)$ have?

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If your answer was...

four



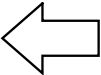
Find the answer to...

Write the end behavior for the function
 $f(x) = -3x^4 - 2x^2 + 5$

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If your answer was...

$x \rightarrow -\infty \quad f(x) \rightarrow -\infty$
 $x \rightarrow \infty \quad f(x) \rightarrow -\infty$




Find the answer to...

$f(x) = x^4 - 256$ is a polynomial, what are the possible combinations of real and complex zeros?

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If your answer was...


2 real zeros & 2 complex zeros



Find the answer to...

$f(x) = x^4 - 256$ is a polynomial, state the zeros of $f(x)$.

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If your answer was... 

$$x = 4, x = -4, x = 4i, x = -4i$$

Find the answer to...

Use the Binomial Theorem and Pascal's Triangle to expand $(x - 2y)^4$

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If your answer was... 

$$x^4 - 8x^3y + 24x^2y^2 - 32xy^3 + 16y^4$$

Find the answer to...

Find the end behavior for the function $f(x) = 4x^3 - 2x + 6$

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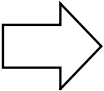
If your answer was... 

$$\begin{matrix} x \rightarrow -\infty & f(x) \rightarrow & -\infty \\ x \rightarrow \infty & f(x) \rightarrow & \infty \end{matrix}$$

Find the answer to...

Divide using Synthetic Division of $(3x^3 - 10x^2 - 5) \div (x - 4)$

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If your answer was... 

$$3x^2 + 2x + 8 + \frac{27}{x-4}$$

Find the answer to...

Divide with long division

$$6x^3 + 16x^2 + 3x - 2 \div x + 1$$

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If your answer was...

$$6x^2 + 10x - 7 + \frac{5}{x+1}$$



Find the answer to...

Give the domain and range of

$$f(x) = x^3 + 6x^2 + 9x$$

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If your answer was...

D: $x \in \text{reals}$
R: $y \in \text{reals}$



Find the answer to...

$$\text{Factor } f(x) = x^3 - 2x^2 - x + 2$$

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If your answer was...

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



Find the answer to...

Give the domain and range for

$$x^4 + 4x^3 + 6x^2 + 4x + 1$$

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If your answer was...

D: $x \in \text{reals}$
R: $y \in \text{reals}; y \geq 0$



Find the answer to...

Divide with synthetic division for

$$3x^3 + 2x^2 - 5x + 1 \div x + 1$$

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