

The perimeter of the rectangle is
 $10x^2 + 8x + 12$ The length is $x^2 + 7x$
What would the width be?



Mar 23-9:59 AM

Learning Target 6.2
**How can I perform the
different operations
with polynomials.**

Topic: Division

Mar 23-9:59 AM

$$(3x^4 - 12x + 5) \div (x + 1)$$

$x+1=0$
 $-1 - 1$
 $x = -1$

$\begin{array}{r} 3 \\[-1ex] 0 \\[-1ex] 0 - 12 \end{array}$	$\begin{array}{r} 0 \\[-1ex] 0 \\[-1ex] 0 - 15 \end{array}$	$\begin{array}{r} 20 \\[-1ex] \hline 20 \end{array}$
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-1

$\begin{array}{r} 3 \\[-1ex] 3 \\[-1ex] 3 - 15 \end{array}$	$\begin{array}{r} 3 \\[-1ex] 3 \\[-1ex] 3 - 15 \end{array}$	$\begin{array}{r} 20 \\[-1ex] \hline 20 \end{array}$
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$$3x^3 - 3x^2 + 3x - 15 \frac{20}{x+1}$$

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$$(x^4 + 11x^3 + 22x^2 + 28x - 72) \div (x + 9)$$

$x+9=0$
 $-9 - 9$
 $x = -9$

$\begin{array}{r} 1 & 11 & 22 & 28 & -72 \end{array}$	$\begin{array}{r} 0 & -9 & -18 & -36 & 72 \end{array}$	$\begin{array}{r} 1 & 2 & 4 & -8 & 0 \end{array}$
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$1 \dots 2.4x - 8$

$$\frac{(x^3 - x^2 - 60x + 32)}{(x - 8)}$$

$x-8=0$
 $+8 + 8$
 $x = 8$

$\begin{array}{r} 1 & -1 & -60 & 32 \end{array}$	$\begin{array}{r} 0 & 8 & 56 & -32 \end{array}$	$\begin{array}{r} 1 & -4 & 0 \end{array}$
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$$(x^2 + 7x - 4)(x - 8)$$

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$$(2x^3 - 5x^2 + 4) \div (x+1)$$

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$$\begin{array}{r} -4x^3 - 11x^2 + 30x - 40 \\ \hline x+4 | -4 \quad -11 \quad 30 \quad -40 \\ \quad 0 \quad 16 \quad -20 \quad -40 \\ \hline \quad -4 \quad 5 \quad 10 \quad -80 \\ \end{array}$$
$$\begin{array}{r} -4x^2 + 5x + 10 - 80 \\ \hline x+4 \end{array}$$

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$$(x^3 - 3x^2 - 12x - 37) \div (x - 6)$$

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Apr 22-9:20 AM