



Divide
$$(2x^3 + 5x^2 - 4x - 3)$$
 by $(x-1)$

using Synthetic Division.

$$2x^3 + 5x^2 - 4x - 3$$

$$x - 1$$

$$x - 2$$

$$x - 1$$

$$2x^3 + 5x^2 - 4x - 3$$

$$2x^2 + 7x + 3$$
Sinal Ans: $2x^2 + 7x + 3$

$$2x^3 + 5x^2 - 4x - 3$$

$$2x^2 + 7x + 3$$
Remainder
$$2x^3 + 5x^2 - 4x - 3$$

$$(x - 1)(2x^2 + 7x + 3) = 2x^3 + 5x^2 - 4x - 3$$

Divide Using Synthetic division:

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

Divide
$$4x^3 - 7x^2 + 10$$
 $4x^3 - 7x^2 + 0x + 10$ $x+1$ $x-c \Rightarrow c=-1$

$$\frac{-1}{4} - 7 = 0 = 0$$

$$\frac{-1}{4} - 11 = 11$$

$$\frac{-1}{4} - 11 = -1$$

A rectangular shape has the area
$$2x^4 - 3x^2 + 3x - 14$$
 with the width $x+2$. Sind its length.

A=LW

(x+2) L = $2x^4 - 3x^2 + 3x - 14$

2 $x^4 - 3x^2 + 3x - 14$
 $x+2$
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Use Synthetic division to divide $\frac{\chi^5+1}{\chi+1}$. $\chi^5+1=\chi^5+0\chi^4+0\chi^3+0\chi^2+0\chi+1$ $\chi^5+1=\chi^5+0\chi^4+0\chi^3+0\chi^2+0\chi+1$ $\chi^5+1=\chi^5+0\chi^4+0\chi^3+0\chi^2+0\chi+1$ $\chi^5+1=\chi^5+0\chi^4+0\chi^3+0\chi^2+0\chi+1$ $\chi^5+1=\chi^5+1=\chi^4-\chi^3+\chi^2-\chi+1$ $\chi^5+1=\chi^4-\chi^3+\chi^2-\chi+1$ $\chi^5+1=\chi^4-\chi^3+\chi^2-\chi+1$ $\chi^5+1=\chi^4-\chi^3+\chi^2-\chi+1$ $\chi^5+1=\chi^4-\chi^3+\chi^2-\chi+1$ $\chi^5+1=\chi^4-\chi^3+\chi^2-\chi+1$