

$$\begin{array}{r}
 x + 2 \overline{) 2x^3 - 3x^2 + 4x + 5} \\
 \underline{2x^2} \\
 x + 2 \overline{) 2x^3 - 3x^2 + 4x + 5} \\
 \underline{2x^2} \\
 x + 2 \overline{) 2x^3 - 3x^2 + 4x + 5} \\
 \underline{-(2x^3 + 4x^2)} \\
 -7x^2 + 4x \\
 \underline{2x^2 - 7x} \\
 x + 2 \overline{) 2x^3 - 3x^2 + 4x + 5} \\
 \underline{-(2x^3 + 4x^2)} \\
 -7x^2 + 4x \\
 \underline{-(-7x^2 + 14x)} \\
 18x + 5 \\
 \underline{2x^2 - 7x + 18} \\
 x + 2 \overline{) 2x^3 - 3x^2 + 4x + 5} \\
 \underline{-(2x^3 + 4x^2)} \\
 -7x^2 + 4x \\
 \underline{-(-7x^2 + 14x)} \\
 18x + 5 \\
 \underline{-18x + 36} \\
 -31
 \end{array}$$

Set up the division problem.

$2x^3$ divided by x is $2x^2$.

Multiply $x + 2$ by $2x^2$.

Subtract.

Bring down the next term.

$-7x^2$ divided by x is $-7x$.

Multiply $x + 2$ by $-7x$.

Subtract. Bring down the next term.

$18x$ divided by x is 18 .

Multiply $x + 2$ by 18 .

Subtract.