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 QUESTION 1

Drag and drop the correct values to complete the long division.

Complete the division.

$$(6x^3 + 19x^2 - 3x + 11) \div (2x + 7)$$

$$\begin{array}{r}
 x^2 - \boxed{3}x + \\
 2x + 7 \overline{) 6x^3 + 19x^2 - 3x + 11} \\
 \underline{(-) 6x^3 + 21x^2} \\
 -2x^2 - 3x + 11 \\
 \underline{(-) -2x^2 - x} \\
 4x + 11 \\
 \underline{(-) 4x + 14} \\

 \end{array}$$

 7 

4

1

-7

6

 QUESTION 2

Drag and drop the correct values to complete the long division.

Complete the division.

$$(24x^4 - 34x^3 + 27x^2 - 13x - 1) \div (4x^3 - 3x^2 + 2x - 1)$$

$$\begin{array}{r}
 \overline{) 24x^4 - 34x^3 + 27x^2 - 13x - 1} \\
 (-) 24x^4 - 18x^3 + 12x^2 - 6x \\
 \hline
 x^3 + 15x^2 - 7x - 1 \\
 (-) -16x^3 + 12x^2 - x + 4 \\
 \hline
 2x^2 + x - 5 \\
 -16 \quad \checkmark
 \end{array}$$

— 6

7

16

QUESTION 3



Drag and drop the correct values to complete the long division.

Complete the division.

$$(7x^3 + 26x^2 + 50x + 28) \div (x^2 + 3x + 5)$$

$$\begin{array}{r}
 x^2 + 3x + 5 \overline{)7x^3 + 26x^2 + 50x + 28} \\
 (-)7x^3 + 21x^2 + 35x \\
 \hline
 x^2 + 15x + 28 \\
 (-)5x^2 + x + 25 \\
 \hline
 3
 \end{array}$$

5 ✓

- 5

- 7

13



QUESTION 4

Drag and drop the correct answer into the space(s) provided.

The quotient of the division

$$(x^3 + 2x^2 + 3x + 6) \div (x + 2)$$

is $x^2 + 3$



$$x^2 + 3x$$

$$x + 4$$

$$x^2 - 3$$



QUESTION 5

Drag and drop the correct answer into the space(s) provided.

Find the quotient and remainder.

$$(3x^4 + 17x^3 + 8x^2 + 4x + 17) \div (3x^3 + 2x^2 - x + 3)$$

Quotient = $x + 5$



and Remainder = $-x^2 + 6x + 2$



$$x - 1$$

$$\frac{x^2 + 4x + 17}{3x^3 + 2x^2 - x + 3}$$

$$\frac{-3x^2 - 4x + 17}{3x^3 + 2x^2 - x + 3}$$

$$x - 5$$

$$x + 3$$

$$\frac{x^2 - 6x + 2}{3x^3 + 2x^2 - x + 3}$$



QUESTION 6

Fill in the blank(s) with the correct answer.

Divide. Enter the quotient and complete the remainder.

$$(18x^3 + 15x^2 + 8x + 5) \div (3x^2 + 2x + 1)$$

Use the lowercase letters only.

$$6x + 1$$



+ -



QUESTION 7



Fill in the blank(s) with the correct answer.

Divide.

Enter your answer, in standard form, in the provided space. Use the lowercase letters only.

$$\frac{x^3 + x^2 - 3x - 6}{x - 2} =$$

$$x^2 + 3x + 3$$



QUESTION 8



Fill in the blank(s) with the correct answer.

Find the quotient.

Enter your answer in standard form in the space provided. Use the lowercase letters only.

$$(6x^3 + 7x^2 + 12x + 5) \div (2x + 1) =$$

$$3x^2 + 2x + 5$$



QUESTION 9



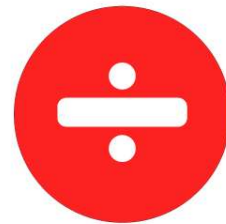
Fill in the blank(s) with the correct answer.

Find the quotient.

Enter your answer in standard form in the provided space. Use the lowercase letters only.

$$(4x^3 + 5x^2 - x + 10) \div (x + 2) =$$

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



QUESTION 10



Fill in the blank(s) with the correct answer.

Divide. Enter the quotient and complete the remainder.

$$(3x^4 - 5x^3 + 9x^2 - 10x + 20) \div (x^3 - x^2 + 4x - 2)$$

Use the lowercase letters only.

$$(-5x^2 + 4x + 16)$$



$$3x - 2$$



+

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

QUESTION 11



Choose the correct answer from the drop-down menu.

Find the quotient and remainder.

$$(8x^3 + 6x^2 - 6x + 25) \div (x^2 - x + 1) =$$

$$8x + 14$$



+

$$\frac{11}{x^2 - x + 1}$$

$$x^2 - x + 1$$



QUESTION 12



Choose the correct answer from the drop-down menu.

Find the quotient and remainder.

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

$$x - 1 \quad \checkmark \quad \text{v}$$

+

$$\frac{2x^2 - 4x - 1}{2x^3 + 2x^2 - 4x - 3} \quad \checkmark \quad \text{v}$$

QUESTION 13



Choose the correct answer from the drop-down menu.

Divide.

$$(10x^4 - 4x^3 + 2x^2 + x - 2) \div (2x^3 - 2x^2 + x - 1) =$$

$$5x + 3 \quad \checkmark \quad \text{v}$$

+

$$\frac{3x^2 + 3x + 1}{2x^3 - 2x^2 + x - 1} \quad \checkmark \quad \text{v}$$

QUESTION 14



Choose the correct answer from the drop-down menu.

Find the quotient and remainder.

$$(6x^3 + 3x^2 + 5) \div (2x^2 - x + 1) =$$

$$3x + 3 \quad \checkmark \quad \text{v}$$

+

$$\frac{2}{2x^2 - x + 1} \quad \checkmark \quad \text{v}$$

QUESTION 15



QUESTION 10

Select the correct option.

$$(2x^3 - 3x^2 - 4x - 15) \div (x - 3) =$$



☐ $2x^2 + 3x - 5$

☐ $x^2 + 3x + 5$

☐ $2x^2 - 3x - 5$

☒ $2x^2 + 3x + 5$

