Find the quotient of the problem below. State if the divisor is a factor of the dividend. Then state the division algorithm as it relates to the problem

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

Find the quotient of the problem below. State if the divisor is a factor of the dividend. Then state the division algorithm as it relates to the problem

$$\frac{2x^4 - 9x^3 + 13x^2 - 8x + 3}{2x - 3}$$

Find the quotient of the problem below. State if the divisor is a factor of the dividend. Then state the division algorithm as it relates to the problem. Write any remainders in fraction form

$$(3x^3 + 22x^2 - 48x - 5) \div (3x - 5)$$

Find the quotient of the problem below. State if the divisor is a factor of the dividend. Then state the division algorithm as it relates to the problem. Write any remainders in fraction form

$$\frac{4x^4 + 35x^3 - 54x - 26}{4x + 3}$$

Find the quotient of the problem below. Then continue to factor the quotient and state in the form of the division algorithm

$$\frac{x^3 - 4x^2 - 11x + 30}{x - 2}$$

Find the quotient of the problem below. Then continue to factor the quotient and state in the form of the division algorithm

$$\frac{x^3 - 3x^2 - 4x + 12}{x - 3}$$

Find the missing information in the problem below

$$\begin{array}{c|c}
x^{-4} & x^3 + 2x^3 - 6x + 12 \\
& - (x^3 - 4x^3) \\
& - (6x^2 - 6x + 12) \\
& - (6x^2 - 24x) \\
& - (18x - 72) \\
& - (1$$

Find the missing information in the problem below

Correct any mistakes in the problem above

Correct any mistakes in the problem above