

## Divide Trinomials by Binomials

Divide each polynomial. Put remainders in fractional forms.

$$(5y^2 - 34y - 7) \div (y - 7)$$

$$(14k^2 - 27k + 11) \div (7k - 3)$$

$$(4c^2 + 37c + 61) \div (c + 7)$$

$$(35x^2 - 6x - 11) \div (7x + 3)$$

$$(5x^2 - 16x + 2) \div (x - 3)$$

$$(10n^2 - 9n - 6) \div (2n - 3)$$

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Divide each polynomial. Put remainders in fractional forms.

$$\begin{aligned}(5y^2 - 34y - 7) \div (y - 7) \\ = 5y + 1\end{aligned}$$

$$\begin{aligned}(4c^2 + 37c + 61) \div (c + 7) \\ = 4c + 9 - \frac{2}{c + 7}\end{aligned}$$

$$\begin{aligned}(5x^2 - 16x + 2) \div (x - 3) \\ = 5x - 1 - \frac{1}{x - 3}\end{aligned}$$

$$\begin{aligned}(14k^2 - 27k + 11) \div (7k - 3) \\ = 2k - 3 + \frac{2}{7k - 3}\end{aligned}$$

$$\begin{aligned}(35x^2 - 6x - 11) \div (7x + 3) \\ = 5x - 3 - \frac{2}{7x + 3}\end{aligned}$$

$$\begin{aligned}(10n^2 - 9n - 6) \div (2n - 3) \\ = 5n + 3 + \frac{3}{2n - 3}\end{aligned}$$