Divide Trinomials by Binomials

Divide each polynomial. Put remainders in fractional forms.

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

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

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

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

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

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

Divide Trinomials by Binomials

Divide each polynomial. Put remainders in fractional forms.

$$\left(5y^2-34y-7\right)\div\left(y-7\right)$$
$$=5y+1$$

$$\left(4c^2+37c+61\right)\div\left(c+7\right)$$
$$=4c+9-\frac{2}{c+7}$$

$$\left(5x^2-16x+2\right)\div\left(x-3\right)$$
$$=5x-1-\frac{1}{x-3}$$

$$\left(14k^2-27k+11\right)\div\left(7k-3\right)$$
$$=2k-3+\frac{2}{7k-3}$$

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

$$\left(10n^2-9n-6\right)\div\left(2n-3\right)$$
$$=5n+3+\frac{3}{2n-3}$$