Factoring Quadratics

Factor each expression completely.

(1) $x^2 - 16x + 63$	(2) $16x^2 - 24x + 9$
(3) $x^2 - 10x + 25$	(4) $9x^2 - 91x + 10$
(5) $10x^2 + 31x + 3$	(6) $x^2 + 8x + 12$
(7) $3x^2 - 6x - 189$	(8) $x^2 + 2x - 24$
(9) $25x^2 - 10x + 1$	(10) $9x^2 + 12x + 4$

MATH MONKS

Factoring Quadratics

Answers

(1) $x^2 - 16x + 63$ $(x - 9)(x - 7)$	(2) $16x^2 - 24x + 9$ $(4x - 3)^2$
(3) $x^2 - 10x + 25$ $(x - 5)^2$	(4) $9x^2 - 91x + 10$ $(x - 10)(9x - 1)$
(5) $10x^2 + 31x + 3$ $(x + 3)(10x + 1)$	(6) $x^2 + 8x + 12$ $(x + 2)(x + 6)$
(7) $3x^2 - 6x - 189$ $3(x + 7)(x - 9)$	(8) $x^2 + 2x - 24$ $(x + 6)(x - 4)$
(9) $25x^2 - 10x + 1$ $(5x - 1)^2$	(10) $9x^2 + 12x + 4$ $(3x + 2)^2$