

Name : _____

Factoring Quadratic Expressions

MS2

Factorize each quadratic expression.

1) $x^2 + 196 + 28x$

2) $\frac{1}{4}c^2 - \frac{1}{81}d^2$

3) $-95ab - 90a^2 - 90b^2 - 100ab + 7n^2$

5) $7t^2 + 21t -$

7) $\frac{1}{4}u^2 + \frac{1}{9}v^2$

9) $49q^2 - 25$

10) $13p^2 - 26$

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Factoring Quadratic Expressions

Factorize each quadratic expression.

1) $x^2 + 196 + 28x$

$(x + 14)^2$

2) $\frac{1}{4}c^2 - \frac{1}{81}d^2$

$\left(\frac{1}{2}c + \frac{1}{9}d\right)\left(\frac{1}{2}c - \frac{1}{9}d\right)$

3) $-95ab - 90a^2 - 10b^2$

$-5b(19a + 2b)$

4) $m^2 - 2mn + n^2$

$(m - n)^2$

5) $7t^2 + 21t - 10$

$7(t - 3)(t + 10)$

7) $\frac{1}{4}u^2 + \frac{1}{9}v^2$

$\left(\frac{1}{2}u + \frac{1}{3}v\right)^2$

10) $13p^2 - 26$

$13(p^2 - 2)$

9) $49q^2 - 25$

$(7q + 5)(7q - 5)$

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