

Name : _____

Factoring Quadratic Expressions

MS1

Factorize each quadratic expression.

1) $\frac{1}{16}s^2 + \frac{1}{2}s + 1$

2) $81w^2 - 121x^2$

3) $-18y^2 + 45$

5) $8p^2 - 6pq$

7) $117 + 13c^2$

9) $\frac{1}{100}m^2 - 49$

10) $12 - 7k + k^2$

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Factoring Quadratic Expressions

Factorize each quadratic expression.

1) $\frac{1}{16}s^2 + \frac{1}{2}s + 1$

$\left(\frac{1}{4}s + 1\right)^2$

2) $81w^2 - 121x^2$

$(9w + 11x)(9w - 11x)$

3) $-18y^2 + 45y - 25$

$-9y(2y - 5)$

5) $8p^2 - 6pq - 9q^2$

$(2p - 3q)(4p + 3q)$

7) $117 + 13c^2$

$13(c - 9)(c + 1)$

9) $\frac{1}{100}m^2 - 49$

$\left(\frac{1}{10}m + 7\right)\left(\frac{1}{10}m - 7\right)$

10) $12 - 7k + k^2$

$(k - 4)(k - 3)$

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