

Name : _____

Factors: Algebraic Identities

MS3

Factorize each expression using algebraic identities.

1) $\frac{64}{r^2} - \frac{48}{r} + 9$

2) $36u^2v - 24uv + 4v$

3) $4a^2b^2 - 4abc$

5) $16s^2 + 9 + 24$

7) $8c^2d^2 - 56cd$

9) $\frac{16}{p^2} + \frac{24}{pq} + \frac{9}{q^2}$

10) $y^2z^2 + 16z^2 - 8yz^2$

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Factors: Algebraic Identities

Factorize each expression using algebraic identities.

1) $\frac{64}{r^2} - \frac{48}{r} + 9$

$\left(\frac{8}{r} - 3\right)^2$

2) $36u^2v - 24uv + 4v$

$4v(3u - 1)^2$

3) $4a^2b^2 - 4abc$

$(2ab - c)^2$

5) $16s^2 + 9 + 24$

$(4s + 3)^2$

7) $8c^2d^2 - 56cd$

$2(2cd - 7)^2$

9) $\frac{16}{p^2} + \frac{24}{pq} + \frac{9}{q^2}$

$\left(\frac{4}{p} + \frac{3}{q}\right)^2$

10) $y^2z^2 + 16z^2 - 8yz^2$

$z^2(y - 4)^2$

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