

Name : _____

Factors: Algebraic Identity

MS3

Factorize each expression using algebraic identity.

1) $b^2 + 36c^2 - 12bc + \frac{49}{d^2} + \frac{14b}{d} - \frac{84c}{d}$

2) $25y^2 + 81z^2 + 90yz - 36z - 20y + 4$

3) $16m^3 + 36mn^2 + 48r$

$\frac{24p}{q} + \frac{88}{q} + 121$

5) $w^2 + 25v^2 + x^2 - 10vw$

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$-30st^2 - 10rt^2 + 25t^2$

7) $2yz^2 + 18y^3 - 12y^2z -$

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$-28uv - 32vw + 112uw$

9) $27a^2b^2 + 90ab^2 + 75b^2 + 18ab + 30b + 3$

10) $81g^2 + 144h^2 + 216gh + 144h + 108g + 36$

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