

Name : _____

Factors: Algebraic Identities

MS1

Factorize each expression using algebraic identities.

1) $512u^3 + 576u^2v + 216uv^2 + 27v^3$

2) $4q^3 + \frac{24q^2}{r} + \frac{48q}{r^2} + \frac{32}{r^3}$

3) $5m^3n^4 - 75m$

$4p + 192$

5) $\frac{1}{g^3} - \frac{18h}{g^2} + \frac{10}{g}$

Gain complete access to the largest collection of worksheets in all subjects!

$3abc^2d^2 - c^3d^3$

7) $432r^3 - 216r^2$

$^2 + 588yz + 343$

9) $t^3u^3 + 3t^2u^3 + 3tu^3 + u^3$

10) $\frac{8}{c^3} - \frac{36}{c^2d} + \frac{54}{cd^2} - \frac{27}{d^3}$

PREVIEW

Gain complete access to the largest collection of worksheets in all subjects!

Members, please log in to download this worksheet.

Not a member? Please sign up to gain complete access.

www.mathworksheets4kids.com