

Name : \_\_\_\_\_

## Factors: Algebraic Identities

ES3

Factorize each expression using algebraic identities.

1)  $\frac{1}{r^3} - \frac{3s}{r^2} + \frac{3s^2}{r} - s^3$

2)  $c^3 + 3c + \frac{3}{c} + \frac{1}{c^3}$

3)  $m^3 - 3m^2n +$

$18yz + 64$

# 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.

5)  $\frac{1}{p^3} + \frac{3}{p^2q} + \frac{3}{pq^2} + \frac{1}{q^3}$

$2 + h^3$

7)  $s^3t^3 + 18s^2t^2 +$

$8$

[www.mathworksheets4kids.com](http://www.mathworksheets4kids.com)

9)  $u^3 - 9u^2 + 27u - 27$

10)  $z^3 - 21z^2 + 147z - 343$