

Name : _____

Algebraic Identity

ES3

Expand each expression using algebraic identity.

1) $\left(x + \frac{3}{x}\right)\left(x - \frac{3}{x}\right)$

2) $(u + 8)(u - 8)$

3) $(6 + n^4)(6 - 2q)$

5) $(g^3 + h^2)(g^3 - 2q)$

7) $(c + 7d)(c - 2q)$

9) $(5r + 9)(5r - 9)$

10) $(a + b)(a - b)$

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

Algebraic Identity

Expand each expression using algebraic identity.

1) $\left(x + \frac{3}{x}\right)\left(x - \frac{3}{x}\right)$

$x^2 - \frac{9}{x^2}$

2) $(u + 8)(u - 8)$

$u^2 - 64$

3) $(6 + n^4)(6 - n^4)$

$-n^8 + 36$

5) $(g^3 + h^2)(g^3 - h^2)$

$g^6 - h^4$

7) $(c + 7d)(c - 7d)$

$c^2 - 49d^2$

9) $(5r + 9)(5r - 9)$

$25r^2 - 81$

10) $(a + b)(a - b)$

$a^2 - b^2$

PREVIEWGain 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