

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

## Algebraic Identity

ES3

Expand each expression using algebraic identity.

1)  $(gh + 2)(gh + 3)$

2)  $(m^4 - 1)(m^4 + 5)$

3)  $(2r - 3)(2r + 3)$

5)  $(s^3 - t)(s^3 - t)$

7)  $(9c + 2)(9c - 4)$

9)  $(x - 4y)(x + 3y)$

10)  $(1 + 2u)(1 + 9u)$

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

## Answer key

ES3

### Algebraic Identity

Expand each expression using algebraic identity.

1)  $(gh + 2)(gh + 3)$

$g^2h^2 + 5gh + 6$

2)  $(m^4 - 1)(m^4 + 5)$

$m^8 + 4m^4 - 5$

3)  $(2r - 3)(2r + 3)$

$4r^2 + 4r - 1$

**PREVIEW**

$9a^2$

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5)  $(s^3 - t)(s^3 - t)$

$s^6 - 4s^3t + t^2$

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7)  $(9c + 2)(9c - 2)$

$81c^2 - 27c + 4$

$9a^2 - 4$

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$9q - 28$

9)  $(x - 4y)(x + 3y)$

$x^2 - xy - 12y^2$

10)  $(1 + 2u)(1 + 9u)$

$18u^2 + 11u + 1$