

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

## Algebraic Identity

ES2

Expand each expression using algebraic identity.

1)  $(3p - 2q)(3p + q)$

2)  $(4w + 7)(4w - 3)$

3)  $(9uv - 4)(9u + 4v)$

5)  $(h^3 + 6)(h^3 - 6)$

7)  $(s^4t - 1)(s^4t + 1)$

9)  $(z + 9)(z + 7)$

10)  $(g + 4h)(g - h)$

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

## Answer key

ES2

### Algebraic Identity

Expand each expression using algebraic identity.

1)  $(3p - 2q)(3p + q)$

$9p^2 - 3pq - 2q^2$

2)  $(4w + 7)(4w - 3)$

$16w^2 + 16w - 21$

3)  $(9uv - 4)(9u + 5v)$

$81u^2v^2 - 54uv^2 - 36u^2v - 20uv$

5)  $(h^3 + 6)(h^3 - 3b)$

$h^6 + h^3 - 3bh^3 - 18b$

7)  $(s^4t - 1)(s^4t + 1)$

$s^8t^2 + 8s^4t - 1$

9)  $(z + 9)(z + 7)$

$z^2 + 16z + 63$

10)  $(g + 4h)(g - h)$

$g^2 + 3gh - 4h^2$

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