

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

## Algebraic Identity

ES1

Expand each expression using algebraic identity.

1)  $(a + 2b)(a - 2b)$

2)  $(s^3 + 4)(s^3 - 4)$

3)  $(3v + 5w)(3$

5)  $(8 + 9k)(8 -$

7)  $(m^4 + n)(m^4$

9)  $\left(\frac{1}{z^2} + 3\right)\left(\frac{1}{z^2} - 3\right)$

10)  $(2 + 5g)(2 - 5g)$

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

## Answer key

### Algebraic Identity

ES1

Expand each expression using algebraic identity.

1)  $(a + 2b)(a - 2b)$

$$a^2 - 4b^2$$

2)  $(s^3 + 4)(s^3 - 4)$

$$s^6 - 16$$

3)  $(3v + 5w)(3v - 5w)$

$$9v^2 - 25w^2$$

5)  $(8 + 9k)(8 - 9k)$

$$-81k + 64$$

7)  $(m^4 + n)(m^4 - n)$

$$m^8 - n^2$$

9)  $\left(\frac{1}{z^2} + 3\right)\left(\frac{1}{z^2} - 3\right)$

$$\frac{1}{z^4} - 9$$

10)  $(2 + 5g)(2 - 5g)$

$$-25g^2 + 4$$

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