

Name : _____

Algebraic Identity

ES2

Expand each expression using algebraic identity.

1) $(3 + t^3)(3 - t^3)$

2) $(2c + 5d)(2c - 5d)$

3) $(pq + 4)(pq - 4)$

5) $\left(s + \frac{5}{s}\right)\left(s - \frac{5}{s}\right)$

7) $(v^2 + v)(v^2 - v)$

9) $(6u + v)(6u - v)$

10) $\left(\frac{m}{n} + 7\right)\left(\frac{m}{n} - 7\right)$

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Algebraic Identity

Expand each expression using algebraic identity.

1) $(3 + t^3)(3 - t^3)$

$-t^6 + 9$

2) $(2c + 5d)(2c - 5d)$

$4c^2 - 25d^2$

3) $(pq + 4)(pq - 4)$

$p^2q^2 - 16$

5) $\left(s + \frac{5}{s}\right)\left(s - \frac{5}{s}\right)$

$s^2 - \frac{25}{s^2}$

7) $(v^2 + v)(v^2 - v)$

$v^4 - v^2$

9) $(6u + v)(6u - v)$

$36u^2 - v^2$

10) $\left(\frac{m}{n} + 7\right)\left(\frac{m}{n} - 7\right)$

$\frac{m^2}{n^2} - 49$

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