

Name : _____

Algebraic Identities

ES2

Expand each expression using algebraic identities.

1) $(uv + w)^2$

2) $(a^4 + 1)^2$

3) $(7z + 6)^2$

5) $(r - t^3)^2$

7) $(9 - k)^2$

9) $(6c - d)^2$

10) $\left(\frac{2}{p} + p^2\right)^2$

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Answer key

Algebraic Identities

ES2

Expand each expression using algebraic identities.

1) $(uv + w)^2$

$$u^2v^2 + 2uvw + w^2$$

2) $(a^4 + 1)^2$

$$a^8 + 2a^4 + 1$$

3) $(7z + 6)^2$

$$49z^2 + 84z + 36$$

5) $(r - t^3)^2$

$$r^2 - 2rt^3 + t^6$$

7) $(9 - k)^2$

$$k^2 - 18k + 81$$

9) $(6c - d)^2$

$$36c^2 - 12cd + d^2$$

10) $\left(\frac{2}{p} + p^2\right)^2$

$$p^4 + 4p + \frac{4}{p^2}$$

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