

Name : _____

Algebraic Identity

MS1

Expand each expression using algebraic identity.

1) $\left(gh + \frac{3}{5}\right)\left(gh - \frac{3}{5}\right)$

2) $(2 + 1.9n)(2 - 1.9n)$

3) $\left(t^4 + \frac{9}{2}\right)\left(t^4 - \frac{9}{2}\right)$

5) $(5a + 0.9b)\left(5a - \frac{2}{5}b\right)$

7) $\left(\frac{4}{u} + 0.2u\right)\left(\frac{4}{u} - 5cd - 1\right)$

9) $(3.1 + 2.4x)(3.1 - 2.4x)$

10) $\left(\frac{v}{3} + w\right)\left(\frac{v}{3} - w\right)$

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Algebraic Identity

Expand each expression using algebraic identity.

1) $\left(gh + \frac{3}{5}\right)\left(gh - \frac{3}{5}\right)$

$$g^2h^2 - \frac{9}{25}$$

2) $(2 + 1.9n)(2 - 1.9n)$

$$-3.61n^2 + 4$$

3) $\left(t^4 + \frac{9}{2}\right)\left(t^4 - \frac{9}{2}\right)$

$$t^8 - \frac{81}{4}$$

5) $(5a + 0.9b)\left(5a - \frac{9}{10}b\right)$

$$25a^2 - 0.81b^2$$

7) $\left(\frac{4}{u} + 0.2u\right)\left(\frac{4}{u} - 0.2u\right)$

$$\frac{16}{u^2} - 0.04u^2$$

9) $(3.1 + 2.4x)(3.1 - 2.4x)$

$$-5.76x^2 + 9.61$$

10) $\left(\frac{v}{3} + w\right)\left(\frac{v}{3} - w\right)$

$$\frac{v^2}{9} - w^2$$

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