

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

## Algebraic Identity

MS2

Expand each expression using algebraic identity.

1)  $(3.4a + b)(3.4a - b)$

2)  $\left(\frac{6}{5} + 2.3v\right)\left(\frac{6}{5} - 2.3v\right)$

3)  $\left(\frac{c}{4} + 1\right)\left(\frac{c}{4} - 1\right)$

5)  $\left(0.5t + \frac{2}{u}\right)\left(0.5t - \frac{2}{u}\right)$

7)  $(4 + 2.2n)(4 - 2.2n)$

9)  $\left(gh + \frac{1}{9}\right)\left(gh - \frac{1}{9}\right)$

10)  $(2.7x + 4.2y)(2.7x - 4.2y)$

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**Algebraic Identity**

Expand each expression using algebraic identity.

1)  $(3.4a + b)(3.4a - b)$

$11.56a^2 - b^2$

2)  $\left(\frac{6}{5} + 2.3v\right)\left(\frac{6}{5} - 2.3v\right)$

$-5.29v^2 + \frac{36}{25}$

3)  $\left(\frac{c}{4} + 1\right)\left(\frac{c}{4} - 1\right) = \frac{c^2}{16} - 1$

$\frac{c^2}{16} - 1$

5)  $\left(0.5t + \frac{2}{u}\right)\left(0.5t - \frac{2}{u}\right) = 0.25t^2 - \frac{4}{u^2}$

$0.25t^2 - \frac{4}{u^2}$

7)  $(4 + 2.2n)(4 - 2.2n) = 16 - 4.84n^2$

$16 - 4.84n^2$

9)  $\left(gh + \frac{1}{9}\right)\left(gh - \frac{1}{9}\right) = g^2h^2 - \frac{1}{81}$

$g^2h^2 - \frac{1}{81}$

10)  $(2.7x + 4.2y)(2.7x - 4.2y) = 7.29x^2 - 17.64y^2$

$7.29x^2 - 17.64y^2$

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