

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

## Algebraic Identity

MS1

Expand each expression using algebraic identity.

1)  $(ab + 4.2)(ab + 8)$

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

3)  $(gh - 4)\left(gh + \frac{4u}{3}\right)$

5)  $(2.4q + 3.1p)(2.4q - 3.1p)$

7)  $(0.9m + 1)(0.9m - 1)$

9)  $\left(\frac{c}{3} + \frac{6}{5}\right)\left(\frac{c}{3} + \frac{3}{5}\right)$

10)  $\left(k + \frac{4}{k}\right)\left(k - \frac{2}{k}\right)$

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**Algebraic Identity**

Expand each expression using algebraic identity.

1)  $(ab + 4.2)(ab + 8)$

$$a^2b^2 + 12.2ab + 33.6$$

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

$$\frac{t^2}{9} - 2t + 8$$

3)  $(gh - 4)\left(gh + \frac{4u}{3}\right)$

$$g^2h^2 - \frac{7gh}{2}$$

5)  $(2.4q + 3.1p)(2.4q - 3.1p)$

$$20.15p^2 + 20.15q^2$$

7)  $(0.9m + 1)(0.9m - 1)$

$$0.81m^2 - 1$$

9)  $\left(\frac{c}{3} + \frac{6}{5}\right)\left(\frac{c}{3} + \frac{3}{5}\right)$

$$\frac{c^2}{9} + \frac{3c}{5} + \frac{18}{25}$$

10)  $\left(k + \frac{4}{k}\right)\left(k - \frac{2}{k}\right)$

$$k^2 - \frac{8}{k^2} + 2$$

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