

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

## Algebraic Identity

MS2

Expand each expression using algebraic identity.

1)  $(-m + 6n + 9)^2$

2)  $\left(-\frac{a}{3} - 4b - c\right)^2$

3)  $\left(-\frac{s^2}{t} + \frac{3}{2} - 1.7t\right)^2$

5)  $\left(7g - g^3 - \frac{4}{h}\right)^2$

7)  $(2p + q + 2.6r)^2$

9)  $(0.2w^2 - 0.5w - 0.6)^2$

10)  $(-3d^2 - c + cd)^2$

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**Algebraic Identity**

Expand each expression using algebraic identity.

1)  $(-m + 6n + 9)^2$

$$m^2 + 36n^2 - 12mn - 18m + 108n + 81$$

2)  $\left(-\frac{a}{3} - 4b - c\right)^2$

$$\frac{a^2}{9} + 16b^2 + c^2 + \frac{8ab}{3} + 8bc + \frac{2ac}{3}$$

3)  $\left(-\frac{s^2}{t} + \frac{3}{2} - 1.7t\right)^2$

$$\frac{s^4}{t^2} + 3.4s^2 + 2.89t^2$$

$$+ 2.8xy + 5.6x + 1.96$$

5)  $\left(7g - g^3 - \frac{4}{h}\right)^2$

$$g^6 - 14g^4 + 49g^2 +$$

$$- \frac{10u}{3} + \frac{45v}{2} + 25$$

7)  $(2p + q + 2.6r)^2$

$$4p^2 + q^2 + 6.76r^2 +$$

$$6k^2 + \frac{1}{k^2} - 8$$

9)  $(0.2w^2 - 0.5w - 0.6)^2$

$$0.04w^4 - 0.2w^3 + 0.01w^2 + 0.6w + 0.36$$

10)  $(-3d^2 - c + cd)^2$

$$9d^4 + c^2d^2 - 6cd^3 - 2c^2d + 6cd^2 + c^2$$

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