

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

## Expand: Algebraic Identities

MS2

Expand each expression using algebraic identities.

1)  $\left(\frac{x}{2} - y\right)^2$

2)  $\left(q^2 + q + \frac{1}{4}\right)^2$

3)  $\left(5d + \frac{1}{d}\right)^2$

4)  $\left(\frac{1}{2}r + 2b\right)^2$

5)  $(r + s - 1.4t)^2$

7)  $(0.6n - m)^2$

9)  $(a - 1.8)^2$

10)  $(2.7 + r^4)(2.7 - r^4)$

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**Expand: Algebraic Identities**

Expand each expression using algebraic identities.

1)  $\left(\frac{x}{2} - y\right)^2$

$\frac{x^2}{4} + y^2 - xy$

2)  $\left(q^2 + q + \frac{1}{4}\right)^2$

$q^4 + 2q^3 + \frac{3q^2}{2} + \frac{q}{2} + \frac{1}{16}$

3)  $\left(5d + \frac{1}{d}\right)^2$

$25d^2 + \frac{1}{d^2}$

5)  $(r + s - 1.4t)^2$

$r^2 + s^2 + 1.96t^2$

7)  $(0.6n - m)^2$

$m^2 + 0.6n^2$

9)  $(a - 1.8)^2$

$a^2 - 3.6a + 3.24$

10)  $(2.7 + r^4)(2.7 - r^4)$

$-r^8 + 7.29$

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