

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

## Expand: Algebraic Identities

Sheet 1

Expand each expression using algebraic identities.

1)  $(2a + 3b)^3$

2)  $(3g + 4)(9g^2 - 12g + 16)$

3)  $\left(\frac{9}{q} + 5r\right)\left(\frac{81}{q^2} - \frac{45r}{q}\right)$

5)  $(5x + 1)^3$

7)  $(tu - 2)(t^2u^2 + 2tu + 4)$

9)  $\left(xy + \frac{2}{z}\right)^3$

10)  $(7 - 3n^2)(49 + 21n^2 + 9n^4)$

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$\left(\frac{5b}{c} + \frac{1}{c^2}\right)$