

Name : _____

Expand: Algebraic Identities

Expand each expression using algebraic identities.

1) $(3 - k)^3$

2) $(6 + 5m)(36 - 30m + 25m^2)$

3) $(7x - y)(49x^2 + 7xy + y^2)$

5) $\left(\frac{7}{r} + s\right)^3$

7) $\left(9 - \frac{p}{q}\right)\left(81 + \frac{9p}{q} + \frac{p^2}{q^2}\right)$

9) $(9a - b)^3$

10) $(x^2 + 4z)(x^4 - 4x^2z + 16z^2)$

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