

**Expand: Algebraic Identities**

Expand each expression using algebraic identities.

1)  $(4a + 3b)(16a^2 - 12ab + 9b^2)$

2)  $(cd - 4)(c^2d^2 + 4cd + 16)$

3)  $(2x - 5y)(4x^2 - 63s + 81)$

5)  $(u + 6v)(u^2$

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$\frac{3}{k} + \frac{9}{k^2}$

7)  $(m^2 - 4)(m^4$

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$s + s^2)$

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9)  $\left(8 + \frac{5}{pq}\right)\left(64 - \frac{40}{pq} + \frac{25}{p^2q^2}\right)$

10)  $(g^3 - h^2)(g^6 + g^3h^2 + h^4)$