

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

## Expand: Algebraic Identities

Sheet 2

Expand each expression using algebraic identities.

1)  $(uv + 8)(u^2v^2 - 8uv + 64)$

2)  $(3p + 2)(9p^2 - 6p + 4)$

3)  $(a + b)(a^2 - ab + b^2) + \frac{15c}{d} + \frac{9c^2}{d^2}$

5)  $\left(2 - \frac{1}{t^3}\right)(4 + 4t + t^2) + 7xy^2 + 49$

7)  $(pq + r)(p^2 + q^2 + r^2) + m^2 + 9mn + n^2$

9)  $(6g - 5h)(36g^2 + 30gh + 25h^2)$

10)  $\left(w + \frac{4}{w}\right)\left(w^2 - 4 + \frac{16}{w^2}\right)$

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