

Name : _____

Expand: Algebraic Identities

Sheet 3

Expand each expression using algebraic identities.

1) $(1 - 3k)(1 + 3k + 9k^2)$

2) $\left(m + \frac{n}{m}\right)\left(m^2 - n + \frac{n^2}{m^2}\right)$

3) $\left(p + \frac{2}{p}\right)\left(p^2 - 4 + \frac{4}{p^2}\right)$

$uv + v^2)$

5) $(5g - 3h)(2g^2 + 3gh + 4h^2)$

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$6a^2b^2 - 4abc + c^2)$

7) $(8 + xy)(64 - 8xy + x^2y^2)$

$+ 5d^2 + 25)$

9) $(7r + 6)(49r^2 - 42r + 36)$

10) $(9 - s^2t^2)(81 + 9s^2t^2 + s^4t^4)$

PREVIEW

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