

Name : _____

Factors: Algebraic Identities

Sheet 3

Factorize each expression using algebraic identities.

1) $(g + 2)^2 - 6h^3(g + 2) + 9h^6$

2) $p^8 + 7p^4q^3 + 12q^6$

3) $4m^8 - \frac{36}{n^6}$

$^5 + 121$

5) $49a^4 - 64b^6$

$+ 56$

7) $bc^8 + \frac{6bc^4}{d^4} +$

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9) $(3s + t)^2 - (2s - t)^2$

10) $4x^4 + \frac{9}{x^4} - 12$