Name : _____

Factors: Algebraic Identities

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

4) $^5 + 121$

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

6) $ + 56$

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

8)

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

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