Name : _____

Factors: Algebraic Identities

Factorize each expression using algebraic identities.

1) $16m^6 + 80m^3n + 96n^2$

2) $100 - (2c - 5)^2$

3) $6u^8 - 54$

5) $y^6z^3 + 14y^3z^2$ ... $r^2 + 20w^4$

7) $9r^4 + 6r^2s^3 - 8$ ... $b^3 + 169$

9) $81g^8 - \dfrac{121}{h^6}$

10) $(a + 1)^2 + 12b(a + 1) + 36b^2$