

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

## Algebraic Identity

MS3

Expand each expression using algebraic identity.

1)  $(b^3 + 5c)(b^3 - 3c)$

2)  $\left(\frac{2g}{h} + \frac{7}{4}\right)\left(\frac{2g}{h} + \frac{7}{2}\right)$

3)  $\left(\frac{w}{3} - 3\right)\left(\frac{w}{3} + 1\right)$

$1.5m + 2.3n$

5)  $\left(k^4 - \frac{1}{k}\right)\left(k^4 + \frac{1}{k}\right)$

7)  $(8a + 1.1)(8a - 1.1)$

$u + \frac{1}{3}$

9)  $\left(p - \frac{4q}{r}\right)\left(p + \frac{q}{r}\right)$

10)  $(y^2 + 5x^3)(y^2 + x^3)$

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