

Student Name: _____

Score:

Factorize

Factorize the following using the identity: $a^2 - b^2 = (a + b)(a - b)$

$$4x^2 - 9y^2$$

$$16m^2 - 25n^2$$

$$p^3q - pq^3$$

$$169a^2 - 144b^2$$

$$8x^2 - 18y^2$$

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Answers

$$4x^2 - 9y^2$$

$$(2x + 3y)(2x - 3y)$$

$$16m^2 - 25n^2$$

$$(4m + 5n)(4m - 5n)$$

$$p^3q - pq^3$$

$$pq(p + q)(p - q)$$

$$169a^2 - 144b^2$$

$$(13a + 12b)(13a - 12b)$$

$$8x^2 - 18y^2$$

$$2(2x + 3y)(2x - 3y)$$