The Factoring Frenzy Challenge

You've been presented with five expressions to factor. Each expression is in the form $a^2 - b^2$, where a and b are integers. Your task is to factor each expression completely.

Expression 1:

$25x^2 - 16y^2$

Expression 2:

$64a^2 - 49b^2$

Expression 3:

$9m^2 - 4n^2$

Expression 4:

$16p^2 - 81q^2$

Expression 5:

$100x^2 - 121y^2$

ANSWERS:

Expression 1:

(5x + 4y) (5x-4y)

Expression 2:

(8a + 7b) (8a − 7b)

Expression 3:

(3m + 2n) (3m − 2n)

Expression 4:

(4p + 9q) (4p − 9q)

Expression 5:

(10x + 11y) (10x − 11y)