

Nom : _____

MATH 8



Test 3

Factorisation

$$(a + b)^2 = a^2 + 2ab + b^2$$

$$(a - b)^2 = a^2 - 2ab + b^2$$

$$(a + b)(a - b) = a^2 - b^2$$

Exercise 1 Factorize by using the remarkable identities:

a) $9x^2 - 1$

=

b) $x^2 - 8x + 16$

=

c) $1 + 64x^2 - 16x$

=

d) $3x^2 - 12x + 12$

=

e) $-36 + 49y^2$

=

Exercise 2 Factorize by using the common factors:

a) $5x - 15$

=

b) $27x^4 - 18x^3 - 15x^2$

=

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

=

d) $3x(x - 1) - x(1 - x)$

=

e) $2a(a - b) - (a - b)^2$

=