

FACTORING POLYNOMIALS – Day 3

Steps for Factoring:

- 1) Factor out the _____.
- 2) Identify the _____ and _____.
- 3) Find the factors of the _____ that add up to the _____.
- 4) Fill in parentheses.

Factor completely.

1) $3y^2 - 39y - 90 =$ _____

2) $x^2 - 3x + 2 =$ _____

3) $2x^2 - 98 =$ _____

4) $3c^2 - 6c + 15 =$ _____

5) What are the factors whose product yields the trinomial $2y^3 + 16y^2 + 14y$?

6) Identify the expression that represents $y^2 - 36$ in factored form.

7) Express $4a^2 + 16$ as a product of factors.

8) Factor the binomial $12y^2 - 144$.

9) A trim carpenter needs to apply crown molding around a rectangular window. The area of the window is shown on the diagram below. Find the perimeter of the window in order for the carpenter to determine the amount of crown molding needed, in terms of x .

