

FACTORING

Frequency: ★★

I. Common Factors

Start your factoring efforts by looking for a greatest common factor.

$$5x^4 + 10x^2 - 20x$$



II. Difference of Squares

$$x^2 - 36$$





Check your answer:

$$(x + 6)(x - 6)$$

→ _____

→ _____

III. Trinomials

Ex. 1 Factor $x^2 - 7x + 12$.

$$\rightarrow (x \quad)(x \quad)$$

Check your answer:

$$(x - 3)(x - 4)$$

→ _____

→ _____

Ex. 2 Factor $3x^2 + 20x - 7$. (Attempt #1)

$$\rightarrow (3x \quad)(x \quad)$$

Check your answer:

$$(3x - 7)(x + 1)$$

→ _____

→ _____ ✖

Ex. 2 Factor $3x^2 + 20x - 7$. (Attempt #2)

$$\rightarrow (\quad)(\quad)$$

Check your answer:

$$(3x - 1)(x + 7)$$

→ _____

→ _____ ✔