

A Review of Factoring

Common Factoring

$$2x^3 - 4x^2 + 8x$$

Difference of Squares

$$x^2 - 36$$

(FORM: $a^2 - b^2$)

Trinomial Factoring

$$a^2 + 9a + 14$$

(FORM: $x^2 + bx + c$)

Tricky Trinomial Factoring

$$2x^2 + 11x - 21$$

(FORM: $ax^2 + bx + c$)

Common Factoring

a) $x^8 + x^6 - x^5 - x^3$

b) $a(x+3) - b(x+3)$

c) $x^2(a+b) + x(a+b)$

d) $4a^2(2a-5b) - 8b^2(5b-2a)$

Difference of Squares

a) $49-9a^2$

b) $1 - 16y^2$

c) $c^4 - 1$

Trinomial Factoring

a) $m^2 - 10m - 24$

b) $8 + 7y - y^2$

Tricky Trinomial Factoring

a) $24x^2 + 14x - 5$

b) $12a^2 - 2ab - 30b^2$

Combination Questions ☺

a) $2x^5 + 14x^3 + 20x$

b) $6a^4 - 21a^2b^2 - 45b^4$

c) $12m^4 - 75n^4$

d) $9s^4t - \frac{1}{4}t^3$

e) $(5x-2)^2 - 49$