⊌lulumath

Challenging Factoring Completely Problems Part II

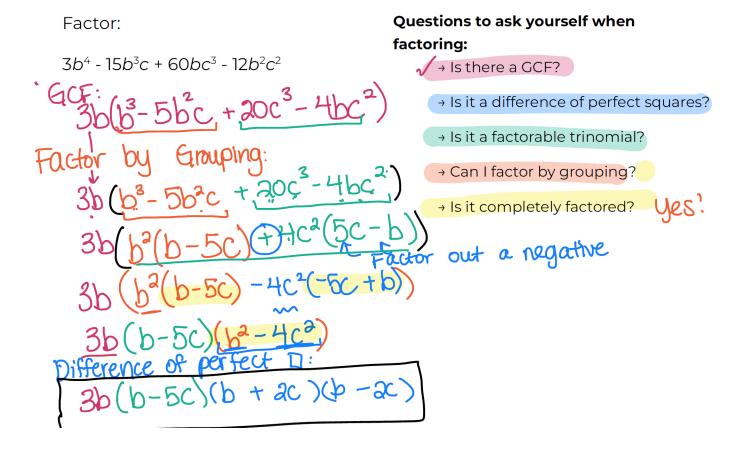
Video Notes

Video Link

Challenging Factoring Completely Problems

What background knowledge will I need?

• Factoring Completely



Factor:

Questions to ask yourself when factoring:

 $(x^2 - 3x)^2 - 14(x^2 - 3x) + 40$

→ Is there a GCF?

Factor Trinomial:

→ Is it a difference of perfect squares?

3

Let $u = x^2 - 3x$ (substitution) $u^2 - 14u + 40$ 40

→ Is it a factorable trinomial?

 $(u - 4 \times u - 10)$ 2 20 Substitute $x^2 - 3x$ in for u. $\frac{14}{5}$ 10 → Can I factor by grouping?

wbstitute $x^{2}-3x$ in 61^{4} . 5/8

→ Is it completely factored?

Yes'

Factor trinomials.

(x + 1)(x - 4)(x - 5)(x + 2)