

How Many Terms?

Two Terms

Three Terms

Four Terms

"GCF" –
"SOAP" –
Prime –

How Many Terms?

Two Terms

GCF

Sum of Two Squares

$$a^2 + b^2$$

PRIME

Difference of Two Squares

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

Sum/Difference of Two Cubes

$$a^3 + b^3 = (a+b)(a^2 - ab + b^2)$$

$$a^3 - b^3 = (a-b)(a^2 + ab + b^2)$$

Three Terms

GCF

UnFOIL

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

Perfect Square Trinomial

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

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

Four Terms

GCF

Grouping

"GCF" – Greatest Common Factor
"SOAP" – Same – Opposite – Always Positive
Prime – Doesn't Factor