## Steps:

1) GCF

Take out the greatest common factor of all terms, if any, put it outside the parenthesis and divide by it
2) $\boldsymbol{B i g} X$
a) Label "a", "b" and "c"
b) Top: "a" times "c"
c) Bottom: b
d) Sides: factors of top (ac) that add up or subtract to bottom (b)

## 3) Parenthesis

a) Set up your two parenthesis with "ax" inside each of them
b) Place one of the side numbers in each parenthesis
c) Simplify like you would simplify a fraction

Example 1: Factor $10 y^{2}-35 y+30$
Step 1:
Step 2:
Step 3:

Practice 1: Factor $16 a^{2}-12 a-18$

| Step 1: | Step 2: | Step 3: |
| :---: | :--- | :--- |
| Step 1:   <br> Example 2: $5 x^{2}+13 x+6$ Step 2: Step 3: |  |  |

Practice 2: $x^{2}-2 x-3$
Step 1:
Step 2:
Step 3:

