Double Distributive

(2x+4)(x-5)

① (2x+4)x + (2x+4)(-5)  $2x^2+4x-10x-20$  $2x^2-6x-20$ 

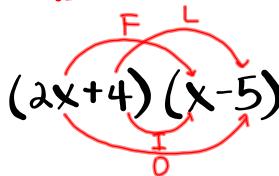
(a) 2x(x-5)+4(x-5)  $2x^{2}-10x+4x-20$  $2x^{2}-6x-20$  F.O.I.L.

F-first

0-outside

1-inside

L-last



$$2x^{2}-10x+4x-20$$
  
 $2x^{2}-6x-20$ 

$$\frac{\text{Vertical}}{(2x+4)(x-5)}$$

$$\frac{2x+4}{x-5}$$

$$\frac{-10x-20}{2x^2+4x}$$

$$\frac{2x^2-6x-20}{2x^2-6x-20}$$

Box  

$$(2x+4)(x-5)$$
  
 $2x^{2}-10x$   
 $4x^{2}-10x$   
 $4x^{2}-20$   
 $x^{2}-10x+4x-20$   
 $2x^{2}-6x-20$