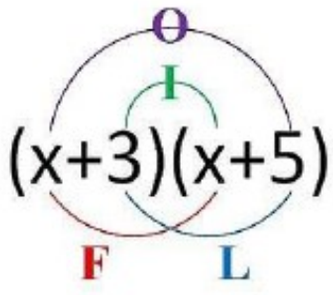
FOIL



F = First

O = Outside

I = Inside

L = last

F O I L

(x)(x) (x)(5) (3)(x) (3)(5)

1) $(x+1)(x+1)$

F O I L

$(x)(x)+(x)(1)+1(x)+(1)(1)$

$x^2+1x+1x+1$

x^2+2x+1

(2) $(x+2)(x+3)$

$(x)(x)+(x)(3)+(2)(x)+2(3)$

$x^2+3x+2x+6$

x^2+5x+6

3) $(x+4)(x+3)$

$(x)(x)+(x)(3)+(4)(x)+4(3)$

$x^2+3x+4x+12$

$x^2+7x+12$

4) $(x-5)(x-4)$

$x^2-4x-5x+20$

$x^2-9x+20$

5) $(2x+1)(x+2)$

$(2x)(x)+(2x)(2)+(1)(x)+(1)(2)$

$2x^2+4x+1x+2$

$2x^2+5x+2$

(6) $(2x+1)(2x+1)$

$4x^2+2x+2x+1$

$4x^2+4x+1$

7) $(2x-1)(x-3)$

$2x^2-6x-1x+3$

$2x^2-7x+3$

8) $(3x+y)(3x+y)$

$9x^2+3xy+3xy+y^2$

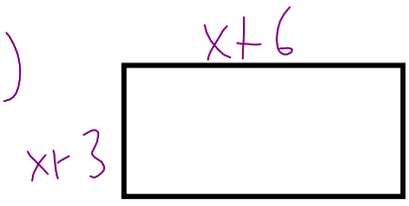
$9x^2+6xy+y^2$

9) $(3x-y)(x+2y)$

$3x^2+6xy-1xy-2y^2$

$3x^2+5xy-2y^2$

(10)



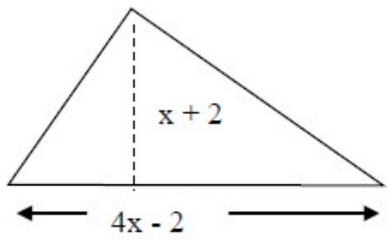
$A=bh$

$A=(x+6)(x+3)$

$A=x^2+3x+6x+18$

$A=x^2+9x+18$ units^2

11)



$A = \frac{1}{2}bh$

$A = \frac{1}{2}(4x-2)(x+2)$

$\frac{1}{2}(4x^2+8x-2x-4)$

$A = \frac{1}{2}(4x^2+6x-4)$

$A = 2x^2+3x-2 \text{ units}^2$