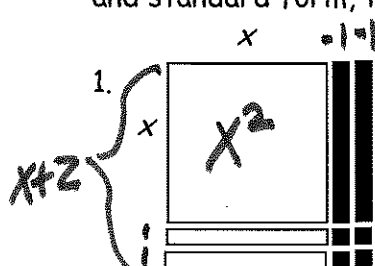


Double Distribution

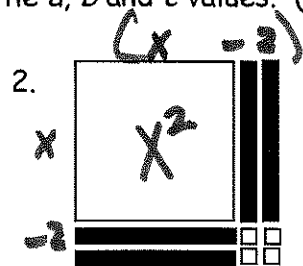
Homework

Name KEY
Date _____ Period _____

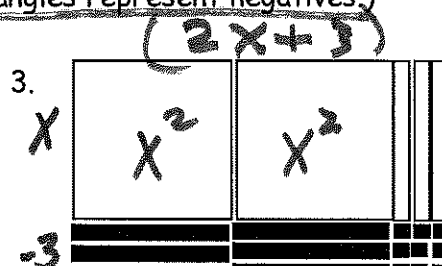
Each rectangle has been created with algebra tiles. Write the area of each rectangle in factored form and standard form, then identify the a , b and c values. (Shaded rectangles represent negatives.)

1. 

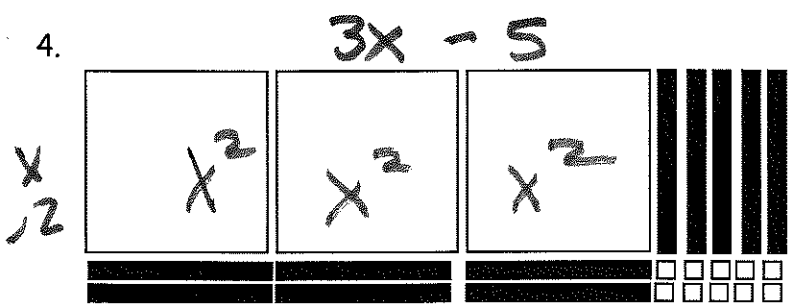
Factored: $(x-2)(x+2)$
Standard: $x^2 - 4$
 $a = 1$ $b = 0$ $c = -4$

2. 

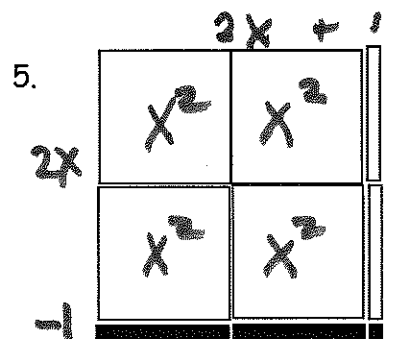
Factored: $(x-2)(x-2)$
Standard: $x^2 - 4x + 4$
 $a = 1$ $b = -4$ $c = 4$

3. 

Factored: $(2x+3)(x-3)$
Standard: $2x^2 - 3x - 9$
 $a = 2$ $b = -3$ $c = -9$

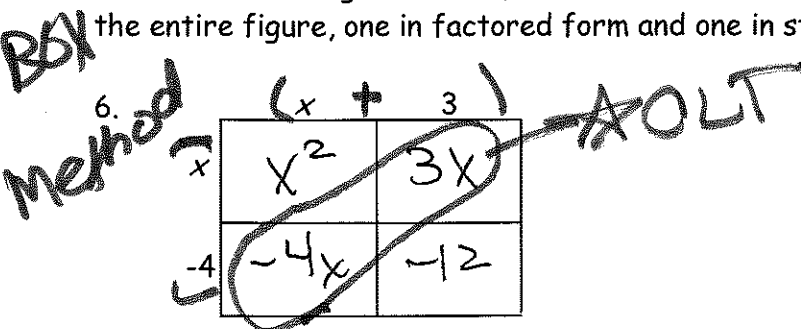
4. 

Factored: $(3x-5)(x-2)$
Standard: $3x^2 - 11x + 10$
 $a = 3$ $b = -11$ $c = 10$

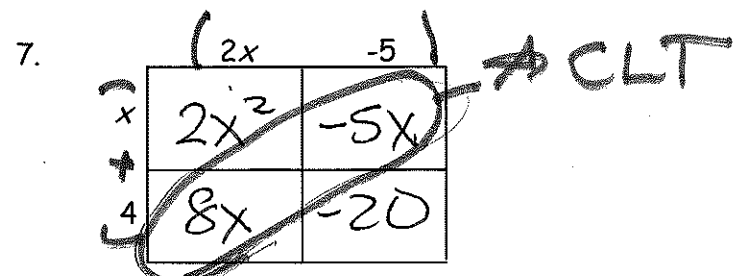
5. 

Factored: $(2x+1)(2x-1)$
Standard: $4x^2 - 1$
 $a = 4$ $b = 0$ $c = -1$

For each of the figures below, fill in the area of each section. Write two expressions for the area of the entire figure, one in factored form and one in standard form, then identify the a , b , and c values.

6. *Box Method* 

Factored: $(x+3)(x-4)$
Standard: $x^2 - x - 12$
 $a = 1$ $b = -1$ $c = -12$

7. 

Factored: $(2x-5)(x+4)$
Standard: $2x^2 + 3x - 20$
 $a = 2$ $b = 3$ $c = -20$