Alg.II: A-SSE.3b **Name: _____**

Completing the Square

Find the value of c that completes the square

Ex. 1 $x^2 + 10x + c$

a =1 b/2 = -5

b =-10

c = $(b/2)^2$ c = $(-5)^2$

c = 25

Ex. 2 $x^2 + \frac{1}{2}x + c$

a =1 b/2 =1/4

b = $\frac{1}{2}$

c = $(b/2)^2$ c = $(1/4)^2$

c = 1/16

1. $x^2 + 16x + c$

2. $x^2 - 12x + c$

3. $x^2 + 9x + c$

4. $x^2 - 38x + c$

5. $x^2 + x + c$

6. $x^2 + 2/3\ x + c$

7. $x^2 - 11/4\ x + c$

8. $x^2 - 13x + c$