

Name _____ Date _____

Completing the square A

Find "c" and write as the square of a binomial

Ex) $x^2 - 6x + c \rightarrow x^2 - 6x + 9 = (x - 3)^2$

$$c \rightarrow \frac{-6}{2} \rightarrow (-3)^2$$

1) $x^2 + 8x + c$

2) $x^2 + 10x + c$

3) $x^2 - 2x + c$

4) $x^2 - 14x + c$

5) $x^2 + 12x + c$

6) $x^2 + 6x + c$

7) $x^2 - 4x + c$

8) $x^2 - 16x + c$

9) $x^2 + 20x + c$

10) $x^2 + 18x + c$

Solve by completing the square

11) $x^2 - 8x + 11 = 0$

12) $x^2 + 6x + 6 = 0$

13) $x^2 + 14x + 30 = -3$

14) $x^2 - 12x + 31 = 4$

15) $x^2 - 4x + 1 = 2$

16) $x^2 + 10x - 5 = -23$

17) $x^2 + 16x + 44 = 0$

18) $x^2 - 20x + 50 = 0$