

Name: _____

Factoring Trinomials in the Form $x^2 + bx + c$ Assignment

To factor trinomials in the form $x^2 + bx + c$, find two numbers that **ADD TO b** and **MULTIPLY to c** . Those are your **factors**. Write them in two sets of brackets with **($x + \text{factor 1}$)($x + \text{factor 2}$)**.

Factor fully.

a) $x^2 + 12x + 20$

b) $x^2 + 13x + 40$

c) $x^2 - 13x + 22$

d) $x^2 - 14x + 49$

e) $x^2 + 14x - 32$

f) $x^2 + 13x - 48$

g) $x^2 + 8x + 16$

h) $x^2 - 20x + 100$

i) $x^2 - x - 20$

j) $x^2 - 18x - 63$

k) $x^2 - 14x + 49$

l) $x^2 - 11x + 28$

m) $x^2 - 4$

n) $x^2 - 144$