# Factoring Polynomials: Exercise 1B

Name: _____

Date: _____

[*15 marks total*]

$$x^2 + bx + c$$

Factor each of the following.

1) $x^2 - 26x + 25 = $ $(x-25)(x-1)$

2) $a^2 + 11a + 10 = $ $(a+1)(a+10)$

3) $b^2 + 21b + 104 = $ $(b+8)(b+13)$

4) $m^2 - 10m - 11 = $ $(m-11)(m+1)$

5) $m^2 - 12m + 11 = $ $(m-11)(m-1)$

6) $m^2 + 12m + 11 = $ $(m+1)(m+11)$

7) $m^2 + 10m - 11 = $ $(m+11)(m-1)$

8) $y^2 - 100y + 1971 = $ $(y-73)(y-27)$

9) $h^2 - 95h + 2184 = $ $(h-56)(h-39)$

10) $x^2 - 46x - 3192 = $ $(x-84)(x+38)$

11) $m^2 + 16m - 2961 = $ $(m-47)(m+63)$

12) $p^2 - 161p + 5974 = $ $(p-103)(p-58)$

13) $w^2 - 18w - 10528 = $ $(w-112)(w+94)$

14) $g^2 + 24g - 14017 = $ $(g-107)(g+131)$

15) $f^2 + 10787 fg + 28913022 g^2 = $ $(f+4973g)(f+5814g)$