Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period \_\_\_\_\_\_\_\_\_\_\_\_\_\_

Factoring quadratic expressions when a = 1.

Multiply the following factors together.

1) $\left(x+2\right)\left(x-8\right)$ (2) $\left(x-9\right)\left(x-1\right)$ (3) $\left(x+7\right)\left(x+3\right)$

Factor the following quadratic equations. If it cannot be factored, write

*Not factorable.*

4) $x^{2}-x-2$ (5) $x^{2}+2x-24$ (6) $x^{2}-x$

7) $x^{2}+6x+9$ (8) $x^{2}+8x-10$ (9) $x^{2}-11x+30$

10) $x^{2}+13x-30$ (11) $x^{2}+11x+28$ (12) $x^{2}-8x+12$

13) $x^{2}-7x-44$ (14) $x^{2}-8x-20$ (15) $x^{2}+4x+3$

16) $x^{2}-5x+36$ (17) $x^{2}-5x-36$ (18) $x^{2}+x$