

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

## Factoring $ax^2 + bx + c$ Assignment

Factor the following polynomials in  $ax^2 + bx + c$  form.

1.  $4x^2 + 34x + 72$

2.  $3y^2 - 2y - 120$

3.  $2a^2 - 3a - 2$

4.  $2a^2 + 16a - 360$

5.  $10x^2 + 45x + 150$

6.  $3y^2 - 7y - 150$

7.  $4b^2 + 12b + 9$

8.  $5d^2 + 2d - 39$

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9.  $2y^2 + y - 105$

10.  $3a^2 + 5a - 28$

11.  $6x^2 + 45x + 54$

12.  $4y^2 - 39y + 90$

13.  $3a^2 + 6a - 45$

14.  $2a^2 + 18a + 40$

15.  $4x^2 + 60x + 225$

16.  $5y^2 - 4y - 96$

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17.  $9b^2 + 54b + 81$

18.  $3d^2 - 2d - 120$

19.  $4y^2 + 24y + 36$

20.  $2a^2 - 31a + 120$