

Name: \_\_\_\_\_

No work No credit

Date: \_\_\_\_\_

**ADDITIONAL PRACTICE** : Algebra 1 - Sections 10-5 to 10-7 : Factor Polynomials

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Factor each completely:

1.  $y^3 + 9y^2$

2.  $5x^2y^3 + 15x^3y^2$

3.  $12t^5 - 20t^4 + 8t^2 - 16$

4.  $p^2 - 36$

5.  $25 - x^2$

6.  $4a^3 - 49a$

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Factor each completely:

7.  $x^2 - 10x + 25$

8.  $4a^2 + 16a + 16$

9.  $x^2 + 9x + 20$

10.  $2y^2 - 16y + 32$

11.  $3x + x^2 - 10$

12.  $y^2 + 5y - 84$

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Factor each completely:

1.  $y^3 - y^2 + 2y - 2$

2.  $x^3 + 8x^2 - x - 8$

3.  $9x^2 + 15x + 4$

4.  $x^2 - 6x - 16$

5.  $x^2 + 3x + 2$

6.  $x^2 - x - 30$

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Factor each completely:

7.  $x^2 + 10x + 16$

8.  $x^2 + x - 72$

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$x^2 - 8x - 9$

10.  $x^2 + 2x - 48$

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$w^2 - 64$

12.  $y^2 - 12y + 36$