

Name \_\_\_\_\_

Alg1

March 16 COVID-19

Factoring Review

## ***Case I/DOTS:***

**Factor each quadratic. If the quadratic is unable to be factored, your answer should be PRIME.**

Examples:

$$x^2 - 10x + 24$$

*Factors of 24, sum=10*

$$(x - 6)(x - 4)$$

$$x^2 + x - 12$$

*Factors of 12, sum = -1*

$$(x + 4)(x - 3)$$

*(D.O.T.S)*

$$x^2 - 49$$

*Diff of Two Sq.*

$$(x + 7)(x - 7)$$

*(D.O.T.S)*

$$4x^2 - 121$$

*Diff of Two Sq*

$$(2x+11)(2x-11)$$

## **Factor each quadratic:**

1)  $x^2 - 5x - 84$

2)  $x^2 + 17x - 84$

3)  $x^2 + 8x - 84$

4)  $x^2 - 10x + 24$

5)  $x^2 - 10x - 24$

6)  $x^2 + 5x - 24$

7)  $x^2 - 2x - 24$

8)  $x^2 + 11x + 24$

9)  $x^2 - 25x + 24$

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10)  $x^2 + 2x - 15$

11)  $x^2 + 12x - 45$

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12)  $x^2 - 6x - 40$

13)  $x^2 - 8x + 12$

14)  $x^2 + 14x - 56$

15)  $x^2 + 18x + 81$

16)  $x^2 - 49$

17)  $x^2 - 196$

18)  $81x^2 - 16$

19)  $121x^2 - 1$

20)  $289x^2 - 169$

21)  $324x^2 - 25$

22)  $49x^2 - 196$

23)  $64x^2 - 1$

24)  $625x^2 - 4$