

Name \_\_\_\_\_  
Alg2a

HW Due December 18, 2019  
Case II Mix

1)  $12x^2 + x - 6$

2)  $12x^2 - 20x - 8$

3)  $12x^2 - 96x + 180$

4)  $24x^2 + 216x + 432$

5)  $24x^2 + 6x - 3$

6)  $24x^2 - 19x - 5$

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7)  $30x^2 - 9x - 3$

8)  $30x^2 + x - 7$

9)  $30x^2 + 390x + 1,260$

10)  $121x^2 - 4$

11)  $64x^2 - 4$

12)  $400x^2 - 36$

13)  $100x^2 - 49$

14)  $100x^2 - 25$

15)  $100x^2 - 625$

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## Answer Key:

- |                      |                      |                       |
|----------------------|----------------------|-----------------------|
| 1) $(4x+3)(3x-2)$    | 2) $4(3x+1)(x-2)$    | 3) $12(x-3)(x-5)$     |
| 4) $24(x+6)(x+3)$    | 5) $3(2x+1)(4x-1)$   | 6) $(24x+5)(x-1)$     |
| 7) $3(5x-1)(2x-1)$   | 8) $(2x+1)(15x-7)$   | 9) $30(x+6)(x+7)$     |
| 10) $(11x+2)(11x-2)$ | 11) $4(4x+1)(4x-1)$  | 12) $4(10x+3)(10x-3)$ |
| 13) $(10x+7)(10x-7)$ | 14) $25(2x+1)(2x-1)$ | 15) $25(2x+5)(2x-5)$  |