

Integrated Algebra Practice: A.A.20 #3

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NAME: \_\_\_\_\_

*P.I. A.A.20: Factor algebraic expressions completely, including trinomials with a lead coefficient of one (after factoring a GCF)*

Factor:

1.  $x^2 - 20x + 100$

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

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

4.  $x^2 + 16x + 64$

5.  $x^2 - 8x + 16$

6.  $x^2 + 24x + 144$

7.  $x^2 - 6x + 9$

8.  $x^2 - 26x + 169$

9.  $x^2 - 22x + 121$

10.  $x^2 - 18x + 81$

11.  $x^2 + 2x + 1$

12.  $x^2 + 14x + 49$

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

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[1]  $(x-10)^2$   
\_\_\_\_\_

[2]  $(x-6)^2$   
\_\_\_\_\_

[3]  $(x+2)^2$   
\_\_\_\_\_

[4]  $(x+8)^2$   
\_\_\_\_\_

[5]  $(x-4)^2$   
\_\_\_\_\_

[6]  $(x+12)^2$   
\_\_\_\_\_

[7]  $(x-3)^2$   
\_\_\_\_\_

[8]  $(x-13)^2$   
\_\_\_\_\_

[9]  $(x-11)^2$   
\_\_\_\_\_

[10]  $(x-9)^2$   
\_\_\_\_\_

[11]  $(x+1)^2$   
\_\_\_\_\_

[12]  $(x+7)^2$   
\_\_\_\_\_

[13]  $(x-5)^2$   
\_\_\_\_\_