

NAME: _____

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

Factor:

1. $x^2 - 6x - 27$

2. $x^2 - 7x - 18$

3. $x^2 - 3x - 18$

4. $x^2 + x - 20$

5. $x^2 + 4x - 12$

6. $x^2 - 5x - 14$

7. $x^2 - 2x - 8$

8. $x^2 - 4x - 21$

9. $x^2 + 7x - 18$

10. $x^2 - x - 30$

11. $x^2 - 11x + 18$

[A] $(x - 9)(x - 2)$

[B] $(x + 9)(x - 2)$

[C] $(x - 9)(x + 2)$

[D] $(x + 9)(x + 2)$

12. $x^2 + 9x + 14$

[A] $(x + 2)(x + 7)$

[B] $(x - 2)(x + 7)$

[C] $(x + 2)(x - 7)$

[D] $(x - 2)(x - 7)$

13. $x^2 - 8x + 15$

[A] $(x - 3)(x - 5)$

[B] $(x + 3)(x - 5)$

[C] $(x - 3)(x + 5)$

[D] $(x + 3)(x + 5)$

14. $x^2 - 17x + 72$

[A] $(x - 8)(x + 9)$

[B] $(x + 8)(x + 9)$

[C] $(x - 8)(x - 9)$

[D] $(x + 8)(x - 9)$

15. $x^2 + 14x + 48$

[A] $(x + 6)(x + 8)$

[B] $(x - 6)(x - 8)$

[C] $(x - 6)(x + 8)$

[D] $(x + 6)(x - 8)$

16. $x^2 - 6x + 5$

[A] $(x - 5)(x + 1)$

[B] $(x + 5)(x + 1)$

[C] $(x - 5)(x - 1)$

[D] $(x + 5)(x - 1)$

[1] $(x-9)(x+3)$ _____

[2] $(x+2)(x-9)$ _____

[3] $(x+3)(x-6)$ _____

[4] $(x-4)(x+5)$ _____

[5] $(x+6)(x-2)$ _____

[6] $(x+2)(x-7)$ _____

[7] $(x+2)(x-4)$ _____

[8] $(x-7)(x+3)$ _____

[9] $(x+9)(x-2)$ _____

[10] $(x-6)(x+5)$ _____

[11] A _____

[12] A _____

[13] A _____

[14] C _____

[15] A _____

[16] C _____