

Name: _____ Date: _____

Factor Completely

- ⊙ Use all of the methods you have learned to factor each trinomial completely
- ⊙ Think about...
 - GCF Factoring
 - Trinomial Factoring
 - DOTS Factorings

Factor each trinomial completely.

1. $6x^2 - 48x$

2. $x^2 + 17x + 70$

3. $x^2 - 13x + 30$

4. $2x^2 - 36x + 160$

5. $7x^2 - 18x - 40$

6. $5x^2 - 31x - 28$

7. $35x^2 - 50x$

8. $4x^2 - 42x + 108$

9. $x^2 - 25$

10. $x^2 - 16$

11. $9x^2 - 1$

12. $25x^2 - 4$

13. $9x^2 + 15x - 50$

14. $9x^2 + 44x - 60$

15. $4x^2 + 23x + 28$

16. The area of a rectangle is represented by the expression $8x^2 - 2x - 15$. The length is given as $(4x + 5)$. What is an expression for the width?

17. The area of a rectangle is represented by the expression $9x^2 - 22x + 7$. The length is given as $(3x - 1)$. What is an expression for the width?

18. The length of a rectangle is expressed as $(5x + 2)$ and the width is expressed as $(x - 4)$. What is an expression for the area of the rectangle?

19. The length of a rectangle is expressed as $(3x - 7)$ and the width is expressed as $(x - 11)$. What is an expression for the area of the rectangle?
