Simplifying rational expressions

Name _____ Date _____

1. $\frac{x^2 + 6x - 16}{x^2 - 6x + 8} =$ _____

2. $\frac{2x^2 - 24x + 54}{x^2 - 15x + 54} =$ _____

3. $\frac{3x^2 - 33x + 72}{x^2 - 15x + 56} =$ _____

4. $\frac{x^2 + 5x + 4}{x^2 + 7x + 12} =$ _____

5. $\frac{x^2 + 3x - 10}{x^2 + x - 6} =$ _____

6. $\frac{x^2 + 4x - 32}{x^2 + 3x - 28} =$ _____

7. $\frac{2x^2 + 6x - 108}{x^2 - 9x + 18} =$ _____

8. $\frac{3x^2 + 6x - 189}{x^2 - 15x + 56} =$ _____

9. $\frac{x^2 - 5x + 4}{x^2 + 2x - 24} =$ _____

10. $\frac{x^2 - 16x + 63}{x^2 - 2x - 63} =$ _____

11. $\frac{2x^2 + 6x - 56}{x^2 - 16} =$ _____

12. $\frac{2x^2 + 34x + 144}{x^2 - 64} =$ _____

13. $\frac{3x^2 + 33x + 84}{x^2 + 15x + 56} =$ _____

14. $\frac{3x^2 + 3x - 60}{x^2 + 3x - 10} =$ _____

15. $\frac{x^2 - 8x - 9}{x^2 - 4x - 45} =$ _____

16. $\frac{x^2 - 13x + 40}{x^2 - 2x - 48} =$ _____

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17. $\frac{x^2 - 8x + 7}{x^2 - 3x - 28} =$ _____

18. $\frac{x^2 - 25}{x^2 + 12x + 35} =$ _____

19. $\frac{x^2 - 9x + 18}{x^2 - x - 6} =$ _____

20. $\frac{x^2 - 2x - 24}{x^2 - 10x + 24} =$ _____

21. $\frac{3x^2 - 3x - 36}{x^2 - 3x - 18} =$ _____

22. $\frac{x^2 - 15x + 56}{x^2 - 13x + 40} =$ _____

23. $\frac{2x^2 + 2x - 84}{x^2 - 3x - 18} =$ _____

24. $\frac{2x^2 - 50}{x^2 - x - 20} =$ _____

25. $\frac{x^2 - x - 2}{x^2 - 8x + 12} =$ _____

26. $\frac{3x^2 + 36x + 105}{x^2 + 6x + 5} =$ _____

27. $\frac{2x^2 + 22x + 48}{x^2 + 13x + 40} =$ _____

28. $\frac{3x^2 + 21x - 54}{x^2 - x - 2} =$ _____

29. $\frac{x^2 + 9x + 20}{x^2 - 5x - 36} =$ _____

30. $\frac{2x^2 - 2x - 12}{x^2 + 5x + 6} =$ _____

31. $\frac{x^2 + 6x + 8}{x^2 - 5x - 36} =$ _____

32. $\frac{2x^2 - 20x + 18}{x^2 - 16x + 63} =$ _____

33. $\frac{x^2 - 6x + 8}{x^2 - 10x + 24} =$ _____

34. $\frac{x^2 + 11x + 18}{x^2 + 2x - 63} =$ _____