

Name: _____

Simplifying Rational Expressions and Finding Excluded Values Classwork

1. $\frac{x}{8x}$

2. $\frac{x}{11x}$

3. $\frac{x}{15x}$

4. $\frac{13x}{x}$

5. $\frac{25x}{x}$

6. $\frac{50x}{x}$

7. $\frac{5x}{30}$

8. $\frac{7x}{35}$

9. $\frac{16x}{28}$

10. $\frac{x^2}{3x}$

11. $\frac{x^2}{10x}$

12. $\frac{x^2}{14x}$

13. $\frac{3x}{x^2}$

14. $\frac{9x}{x^2}$

15. $\frac{32x}{x^2}$

16. $\frac{3x^2}{18x}$

17. $\frac{5x^2}{20x}$

18. $\frac{8x^3}{16x}$

19. $\frac{6x}{18x^2}$

20. $\frac{4x}{8x^2}$

21. $\frac{9x}{15x^2}$

22. $\frac{x^4}{5x^6}$

23. $\frac{x^6}{7x^2}$

24. $\frac{x^7}{17x^3}$

25. $\frac{3x^5}{9x^3}$

26. $\frac{4x^8}{24x^5}$

27. $\frac{18x^7}{36x^4}$

28. $\frac{8x}{8(x+1)}$

29. $\frac{6x}{6(2x+7)}$

30. $\frac{2x}{x(2-x)}$

31. $\frac{4x}{4x(x-2)}$

32. $\frac{3x}{3x(5x-4)}$

33. $\frac{5x}{5x(2x-1)}$

34. $\frac{2}{2x(x+9)}$

35. $\frac{9}{9x(3x+2)}$

36. $\frac{7}{7x(3-2x)}$

37. $\frac{3x}{3(x+1)}$

38. $\frac{5x}{5(x+6)}$

39. $\frac{8x}{8(2x+5)}$

40. $\frac{8}{16x-24}$

41. $\frac{3}{12x-9}$

42. $\frac{5}{30x-25}$

43. $\frac{6}{18x-24x^2}$

44. $\frac{4}{12x^2+16x}$

45. $\frac{15x-3x^2}{9x^2-12x}$

46. $\frac{2x^2+8x}{10x+12x^2}$

47. $\frac{x^2-3x+2}{x^2-12x+11}$

48. $\frac{x^2+6x+8}{x^2-3x-10}$

49. $\frac{x^2+8x+15}{x^2-25}$

50. $\frac{x^2-9}{x^2-x-12}$

51. $\frac{x^2-64}{x^2-5x-24}$

$$52. \frac{x^2+7x+10}{x^2+3x+2}$$

$$53. \frac{x^2-10x+9}{x^2-7x+6}$$

$$54. \frac{x^2+8x+15}{x^2-25}$$

Find the excluded value(s).

$$55. \frac{5}{7x}$$

$$56. \frac{3}{2x-4}$$

$$57. \frac{2x}{x-1}$$

$$58. \frac{8}{6x}$$

$$59. \frac{1}{4x-12}$$

$$60. \frac{2}{5x}$$