

Practice the problems below in the boxes provided.

Find the domain.

1. $\frac{12}{x}$

2. $\frac{x+1}{x}$

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

4. $\frac{3x}{x-5}$

5. $\frac{x-4}{3x+4}$

6. $\frac{9x}{7x+1}$

7. $\frac{2x}{x^2-5x+6}$

8. $\frac{x-1}{x^2+4x+3}$

9. $\frac{6x+17}{2x^2+x-3}$

10. $\frac{3x+7}{2x^2-7x-4}$

Simplify.

11. $\frac{xy^3}{x^2y}$

12. $\frac{x^2y}{xy}$

13. $\frac{5ab^3}{10ab^4}$

14. $\frac{12a^2b}{4a^3b}$

15. $\frac{15xy^3z}{25x^2y^2z}$

16. $\frac{8ab^2c^3}{36a^2bc^2}$

17. $\frac{18(x-4)}{48(x-4)}$

18. $\frac{48(x+3)}{60(x+3)}$

19. $\frac{(x-2)(x+1)}{(x-2)(x-1)}$

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

21. $\frac{x-2}{x^2-4}$

22. $\frac{a+3}{a^2-9}$

23. $\frac{x-4}{16-x^2}$

24. $\frac{x^3-8}{2-x}$

25. $\frac{20-30x}{3x^2-2x}$

26. $\frac{15-3x}{2x^2-10x}$

27. $\frac{x^2-1}{2x^2+x-3}$

28. $\frac{x^2-4x+4}{x^2-4}$

29. $\frac{x^2-7x+6}{x^2+3x-54}$

30. $\frac{2x^2+x-1}{x^2-x-2}$

31. $\frac{x^2+7x-8}{x^2+6x-7}$

32. $\frac{x^2+4x+4}{x^2+7x+10}$

33. $\frac{6-x}{x^2+3x-54}$

34. $\frac{5-x}{x^2-x-20}$

35. $\frac{x^3-3x^2}{2x^2-6x}$

36. $\frac{x^4-y^4}{x^3+xy^2}$

37. $\frac{2x^3-6x^2+4x}{4x^3-4x^2-8x}$

38. $\frac{3x^3-3x^2-18x}{6x^3-36x^2+54x}$

1

Domain: _____

2

Domain: _____

3

Domain: _____

4

Domain: _____

5

Domain: _____

6

Domain: _____

7	8	9
Domain: _____	Domain: _____	Domain: _____
10	11	12
Domain: _____		
13	14	15
16	17	18
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