

Answers to College Algebra Review for Test 1

1. $-(x+5)$

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

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

4. $\frac{x+3}{(x-2)(x+1)}$

5. $\frac{x^2+2x+6}{(x-1)(x+2)}$

6. $\frac{-x+3}{(x+1)^2(x-1)}$

7. $\frac{5x-6}{x(x-1)}$

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

9. $\frac{-1}{a(a+h)}$

10. $\frac{1}{(1+x^2)^{\frac{3}{2}}}$

11. 30

12. $\frac{23}{6}$

13. $11, -\frac{3}{2}$

14. $2 \pm \sqrt{2}$

15. $\frac{-4 \pm \sqrt{14}}{2}$

16. $\frac{3 \pm \sqrt{7}}{2}$

17. $0, \frac{4}{3}$

18. 8

19. 1, 2

20. $\frac{7}{3}, \frac{1}{3}$

21. $\left[1, \frac{23}{2}\right]$

22. $\left(-\infty, -\frac{1}{3}\right) \cup (1, \infty)$

23. $\left[-2, \frac{1}{2}\right]$