

Answer Key to Algebra Practice Exam

1. 37
2. (a) 54 (b) 5.28 (c) 0.5
3. (a) $\frac{5}{28}$ (b) $\frac{9}{4}$
4. 9.5×10^6 3.12×10^{-5}
5. (a) -27 (b) -9 (c) 4
6. $27x^{24}y^3$
7. 2080, 23920
8. $24ab^{13} + 6a^3b^9 - 3b^{11}$
9. $7x^2 + 17x - 12$
10. $(-3, \underline{8}), (\underline{0}, 5)$
11. 2
12. $\frac{14}{3}$
13. $\frac{35}{6} \approx 5.833$
14. $\frac{1}{2}$
15. $y = 6x - 2$
16. $y = -x + 2$
17. (3,3)
18. -4
19. $P = \frac{nRT}{V}$
20. (a) $\frac{11}{2x}$ (b) $\frac{7x+10}{77}$
21. $\frac{3+x}{9-y}$
22. (a) $(y + 2)(y + 3)$
(b) $y = -2, -3$
23. $(3t + 5s)(3t - 5s)$
24. $x = -\frac{15}{2}, 1$
25. (c)