

Answer Key

Practice B

1. yes; $|r| = \frac{1}{4}, \frac{1}{4} < 1$
2. no; $|r| = \frac{4}{3}, \frac{4}{3} > 1$
3. no; $|r| = 2, 2 > 1$
4. yes; $|r| = \frac{2}{9}, \frac{2}{9} < 1$
5. 6
6. no sum
7. $\frac{4}{3}$
8. $\frac{50}{9}$
9. 4
10. 10
11. $\frac{5}{7}$
12. $\frac{20}{9}$
13. $\frac{4}{5}$
14. $\frac{1}{4}$
15. $-\frac{1}{3}$
16. $-\frac{2}{5}$
17. $\frac{4}{9}$
18. $\frac{7}{8}$
19. $\frac{2}{3}$
20. $\frac{2}{9}$
21. $\frac{35}{99}$
22. $\frac{74}{99}$
23. $\frac{181}{333}$
24. $\frac{400}{11}$
25. finite; $|r| = \frac{9}{10}, \frac{9}{10} < 1$;
200 in.
26. 300 ft