

# Answer Key

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## Practice A

1. no;  $|r| = \frac{7}{2}, \frac{7}{2} > 1$
2. yes;  $|r| = \frac{1}{6}, \frac{1}{6} < 1$
3. no;  $|r| = 1, 1 = 1$
4. yes;  $|r| = \frac{2}{5}, \frac{2}{5} < 1$
5. yes;  $|r| = \frac{4}{5}, \frac{4}{5} < 1$
6. no;  $|r| = \frac{8}{7}, \frac{8}{7} > 1$
7. no;  $|r| = 4, 4 > 1$
8. no;  $|r| = 2, 2 > 1$
9. 6
10. 16
11. 9
12. no sum
13.  $\frac{20}{3}$
14.  $-\frac{50}{9}$
15. no sum
16.  $\frac{3}{2}$
17.  $\frac{1}{4}$
18.  $\frac{1}{10}$
19.  $\frac{1}{2}$
20.  $-\frac{1}{2}$
21.  $-\frac{2}{9}$
22.  $-\frac{2}{5}$
23.  $\frac{5}{9}$
24.  $\frac{1}{9}$
25.  $\frac{8}{9}$
26.  $\frac{4}{33}$
27.  $\frac{3}{11}$
28.  $\frac{31}{99}$
29. 8 revolutions