

1. Answer:  $4 + 2\sqrt{3}$
2. Answer:  $1200\pi$
3. Answer:  $\frac{11\pi}{6}$
4. Answer:  $\frac{3}{16}$
5. Answer:  $64\sqrt{3}$
6. Answer: 12
7. Answer: 2
8. Answer:  $\frac{3+3\sqrt{129}}{16}$
9. Answer:  $\frac{7+3\sqrt{5}}{16}$
10. Answer:  $\frac{1365}{8}$