

1.  $\frac{3}{2}$
2. 47196
3.  $-\frac{1}{28}$
4. 87
5.  $-12\pi$
6.  $\frac{16\pi}{15}$
7.  $\frac{15\pi\sqrt{91}}{112}$
8.  $2\sqrt{3} - 2\sqrt{2} + 100$
9. 63
10.  $\frac{200\sqrt{3} + 144\sqrt{6} - 50 - 36\sqrt{2}}{23}$
11. 913
12. 2
13. 12
14. -315