2018~2019学年广东广州越秀区高一下学期期末数学试卷

一、选择题

1 B 2 D 3 A 4 C 5 C 6 D 7 A 8 B 9 C 10 A 11 D

12 B

二、填空题

13 -3

14 $\sqrt{6}\pi$

15 -100

16 $10\sqrt{15}$

三、解答题

17 (1) $AD=\sqrt{19}$.

(2) $\frac{15\sqrt{3}}{2}$.

18 (1) $a_n=2n+1$.

(2) $T_n=n^2+2n-3^n+3$.

19 (1) 证明见解析.

(2) 证明见解析.

20 (1) $l:x=-1$或$l:y=\frac{9}{40}x+\frac{9}{40}$.

(2) $\left(x+\frac{9}{5}\right)^2+\left(y-\frac{7}{5}\right)^2=1$.

21 (1) $CE=1$.

(2) $1+\sqrt{2}$.

22 (1) $\lambda=\frac{1}{5}$，$l:x=3$.

(2) $\lambda=\frac{1}{5}$时，$\left|\overrightarrow{MA}\right|\cdot\left|\overrightarrow{MB}\right|$最小值为20.