G427 A 2097-1737(2023)12-0032-03

[1]

[3]

“ A

10% ” “

” “ ”

[4]

[2]

“ ”

y “

1 0 90 2 30 km

0 0 3 20 km/h 30 km/h

30 3 4 6 18

1

” “

” “

”

“ ”

“

”“ ”“ ”

1

20 km

2 4

20

120 =

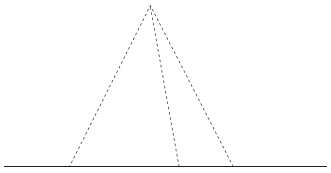

图1

“ ”

— —

— — —

$= \frac{\pi}{3}$ = =

$\frac{2\pi}{3}$ $= \frac{10\sqrt{3}}{\sin\alpha}$ $= \frac{20\sin(\frac{2\pi}{3}-\alpha)}{\sin\alpha}$

$=20 \frac{20\sin(\frac{2\pi}{3}-\alpha)}{\sin\alpha}$ =

40 +80 +120 $=400\sqrt{3} \frac{3-\cos\alpha}{\sin\alpha} + \sqrt{3}$ a∈ $\frac{\pi}{3}$

$\frac{2\pi}{3}$ $\sin = \frac{2\sqrt{2}}{3}$

$=10+\frac{5\sqrt{6}}{2}$

“ ”

“ ”

1

“ ”“ ”

2

“ ”

3

1

$\frac{30}{20}\times 60=90$ $\frac{30}{30}$

$\times 60=60$

$_1=\frac{30}{20}\times 60=\frac{90}{}$

$_2=\frac{30}{30(18)}\times 60=\frac{60}{18}$ 2

$|_1 \ _2|$ $_1+_2$ 3

$1\leqslant \leqslant 17$

$\in$ *

$=|_1 \ _2|=|\frac{90}{} \ \frac{60}{18}|\leqslant 1$ $1\leqslant \leqslant 17$

$\in$ *)… 1

$( )=_1+_2=\frac{90}{}+\frac{60}{18}=\frac{1620\ 30}{18\ ^2}$ (1 $\leqslant \leqslant 17$

$\in$ *)… 2

1

$\blacksquare\ ^2+132\ -1620\leq 0$

$\blacksquare\ ^2-168\ +1620\leq 0$

$=11$

11 7 2

$=10$

10

8

[1] . [J]. ,2022(16):56-58.

[2] . [J]. ,2022(15):52-53.

[3] . [J]. ,2022(03):76-77.

[4] . [J]. ,2022(05):42-44.