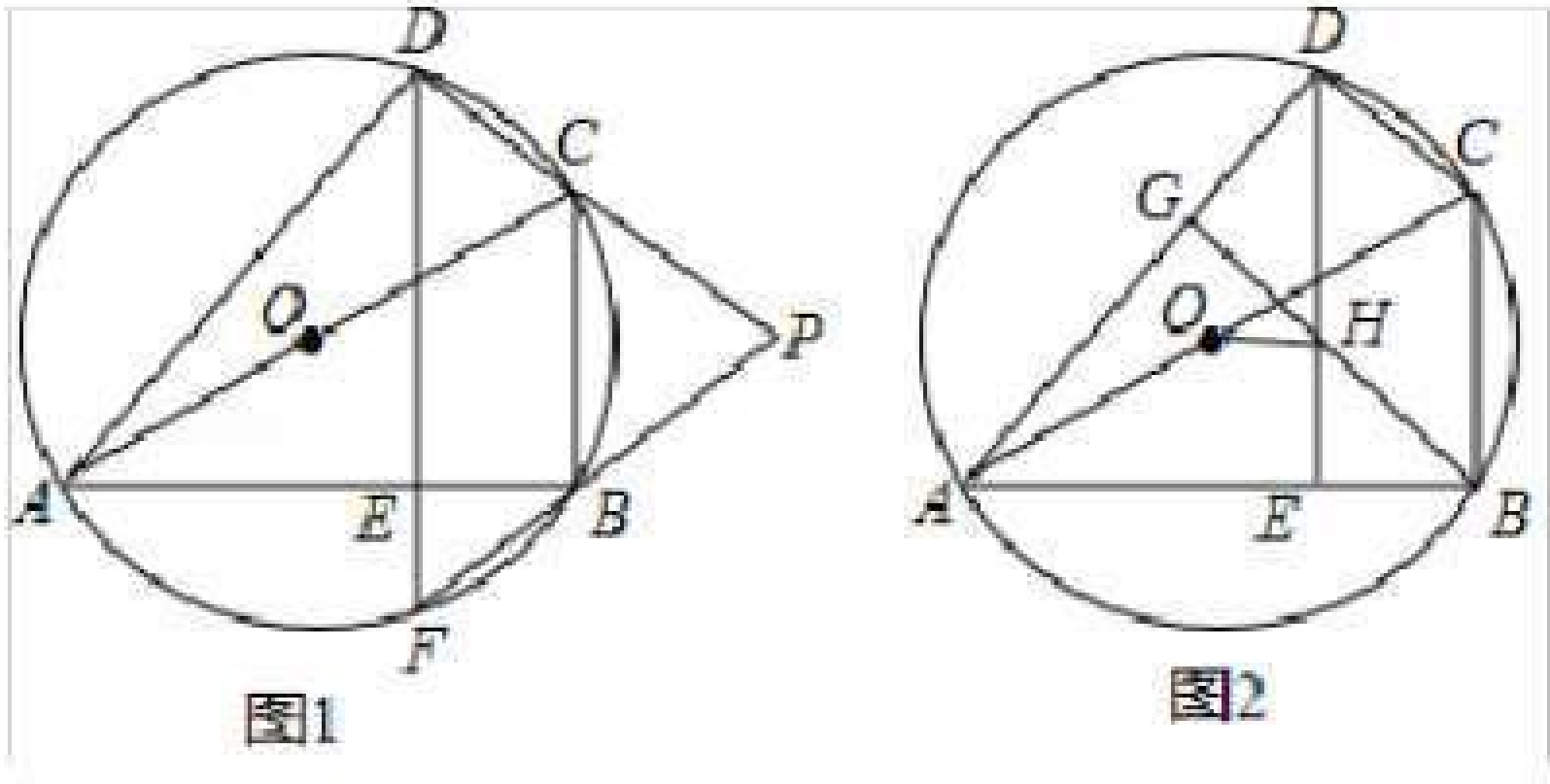


1、（2018 福建）已知四边形 $ABCD$ 是 $\odot O$ 的内接四边形， AC 是 $\odot O$ 的直径， $DE \perp AB$ ，垂足为 E 。

（1）延长 DE 交 $\odot O$ 于点 F ，延长 DC ， FB 交于点 P ，如图 1．求证： $PC=PB$ ；

（2）过点 B 作 $BC \perp AD$ ，垂足为 G ， BG 交 DE 于点 H ，且点 O 和点 A 都在 DE 的左侧，如图 2．若 $AB=\sqrt{3}$ ， $DH=1$ ， $\angle OHD=80^\circ$ ，求 $\angle BDE$ 的大小．



- 2

2018

ABCD

AB=AD=CD

AB

0

C

AC
- OD

E
- 1

OD

BC
- 2

$\tan \angle ABC=2$

DA

0
- 3

2

BD

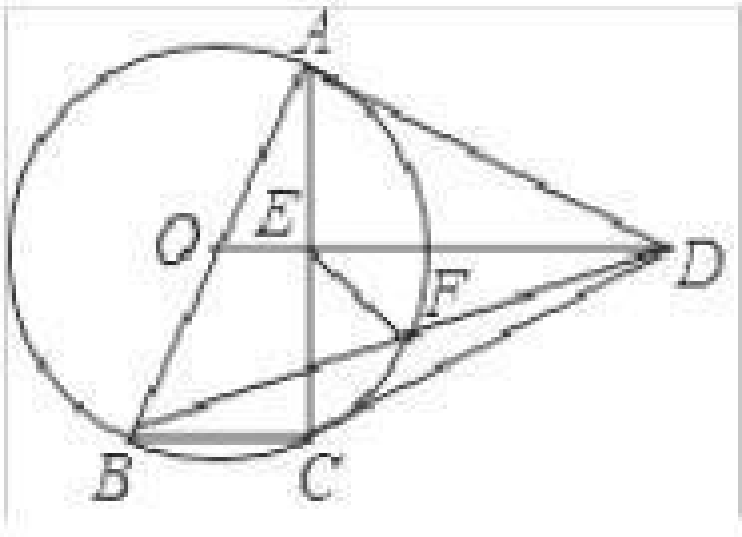
0

F

EF

BC=1

EF



3

2018

0

BC=2

AB=AC

D

AC

$\cos B = \frac{\sqrt{10}}{10}$

1

AB

2

AD?AE

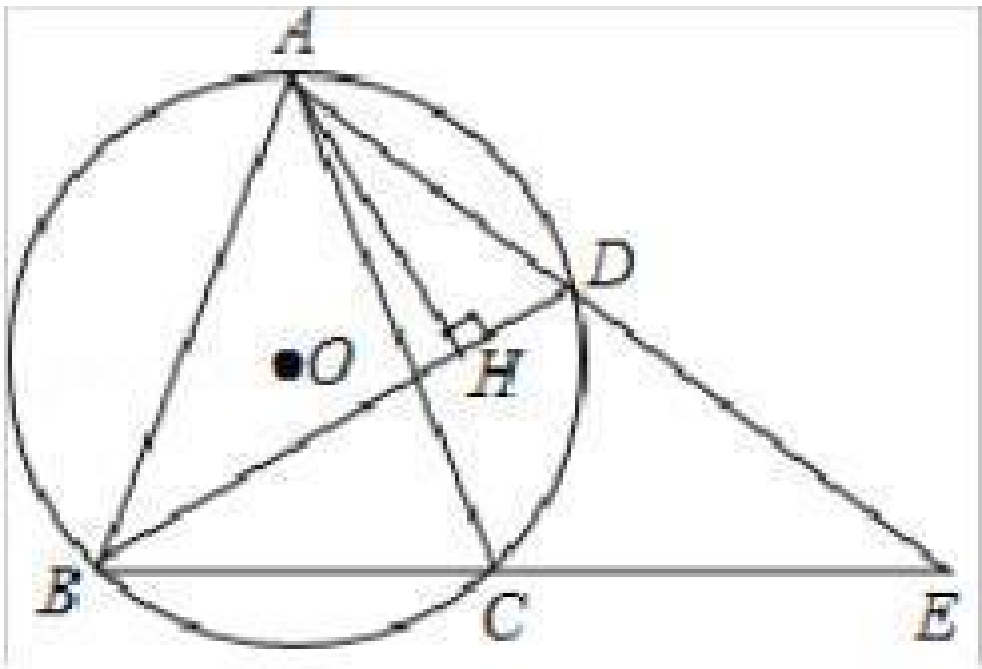
3

A

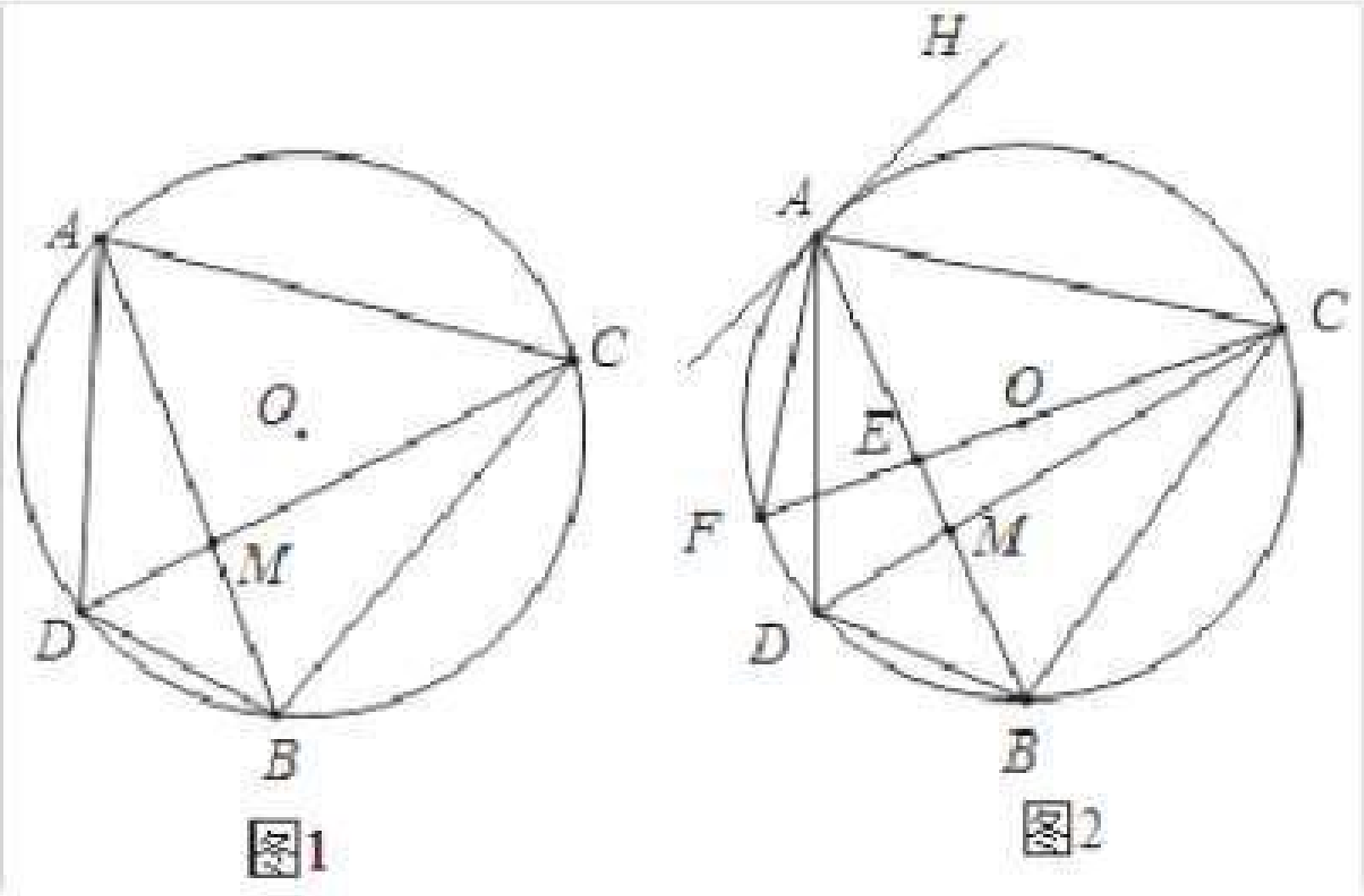
AH

BD

BH=CD +DH



4	2018		1	0	ADB		ADB		DC	AB	M	
	0	C	AC	BC								
	1		AC=BC									
	2	2	1		0	CF	AB	E	AF	A	0	
AH	AH	BC	ACF									
	3	2			ABD	$6\sqrt{3}$	ABD	ABC		2	9	CD

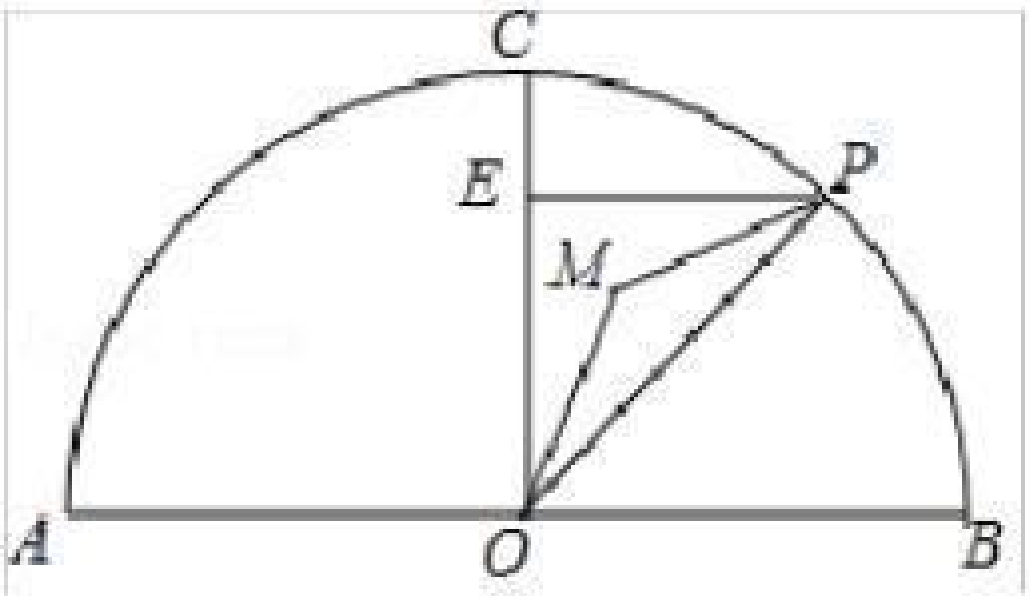


5 2018 AB 0 AB=4 C OC AB 0

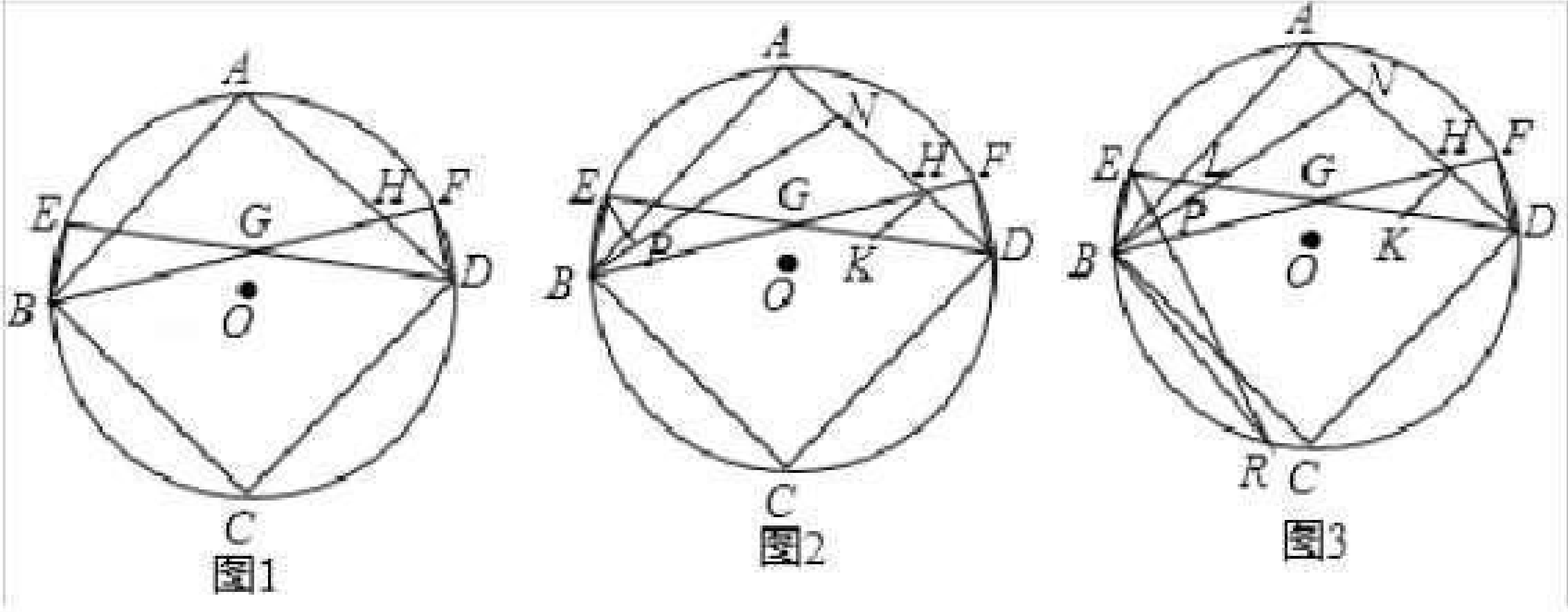
P P PE OC E OPE M OM PM

1 OMP

2 P B A M



6 2018 0 ABCD E $\widehat{AD}$ BE DE F
 $\widehat{AD}$ BF DF BF DE DA G H DA EDF
1 1 CBE= DHG
2 2 AH N N A H BN DE L
H HK BN DE K E EP BN P BP=HF BE=HK
3 3 2 3HF=2DF EP O R BR BER
DHK $\frac{7}{4}$ BR



7 2018 AB O E OB O B EC

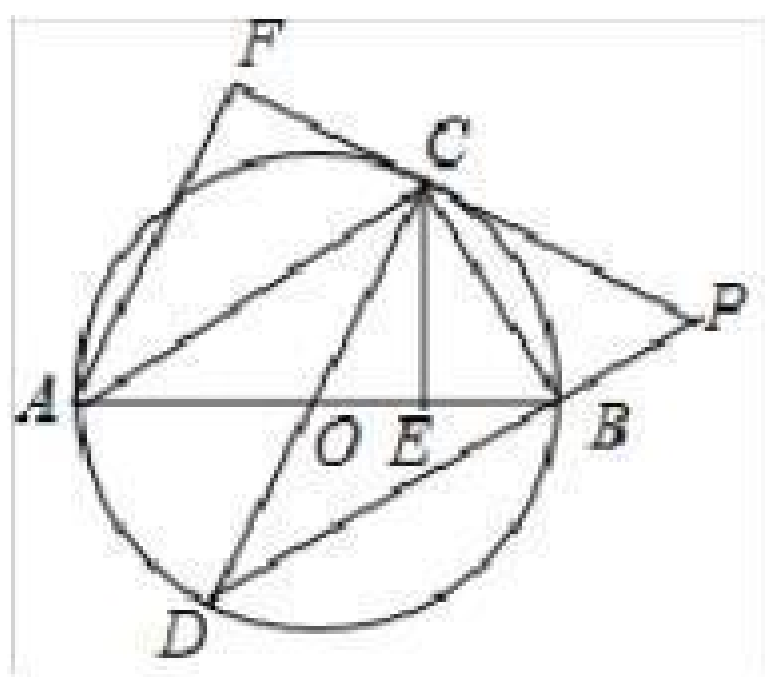
OB O C CD C DB P AF PC F

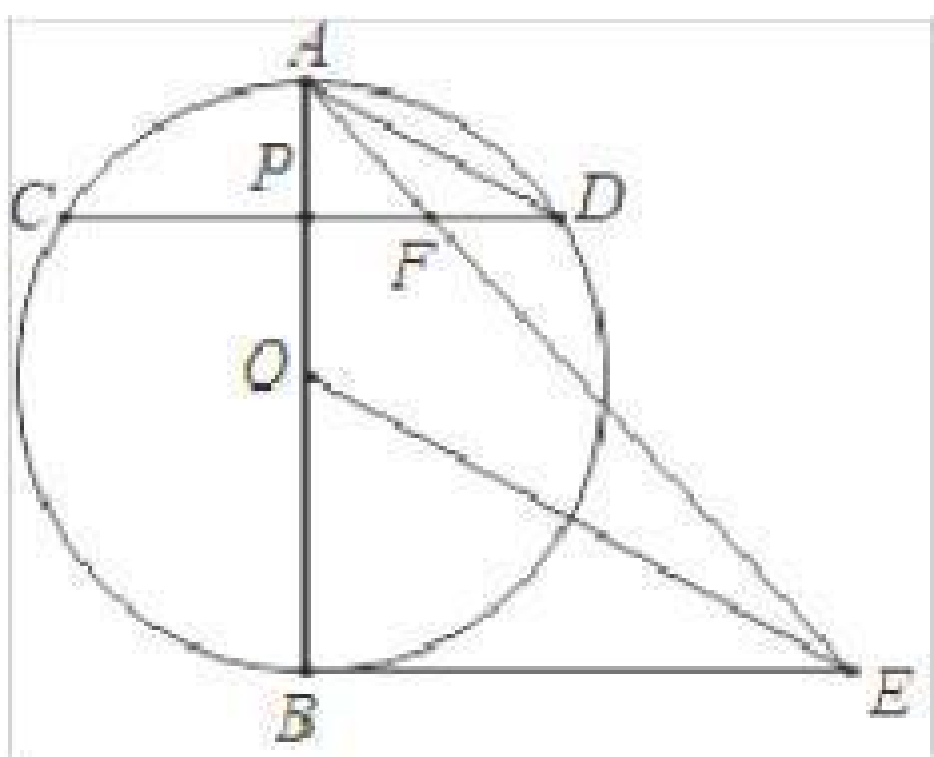
CB

1	AC	FAB
---	----	-----

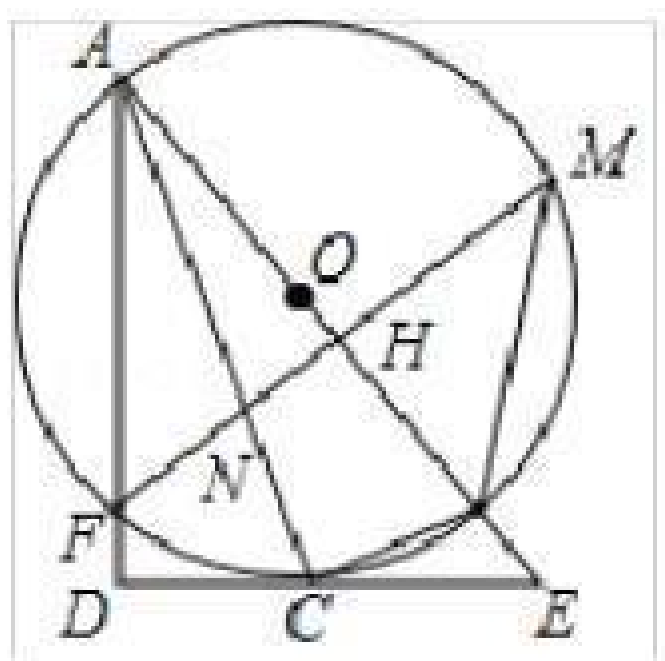
2 BC 2=CE?CP

3 AB=4 $\sqrt{3}$ $\frac{CF}{CP} = \frac{3}{4}$ $\widehat{BD}$



[illegible]

9	2018	AB	0	C	0	C	AB							
	E	AD	EC	EC	D	AD	0	F	FM	AB	H	0	AC	M
N	MB	BC												
1	AC	DAE												
2	cosM= $\frac{4}{5}$	BE=1	0				FN							



11

2018

0

ABC

D

CD

F

DF=DA

AE

BC

CF

E

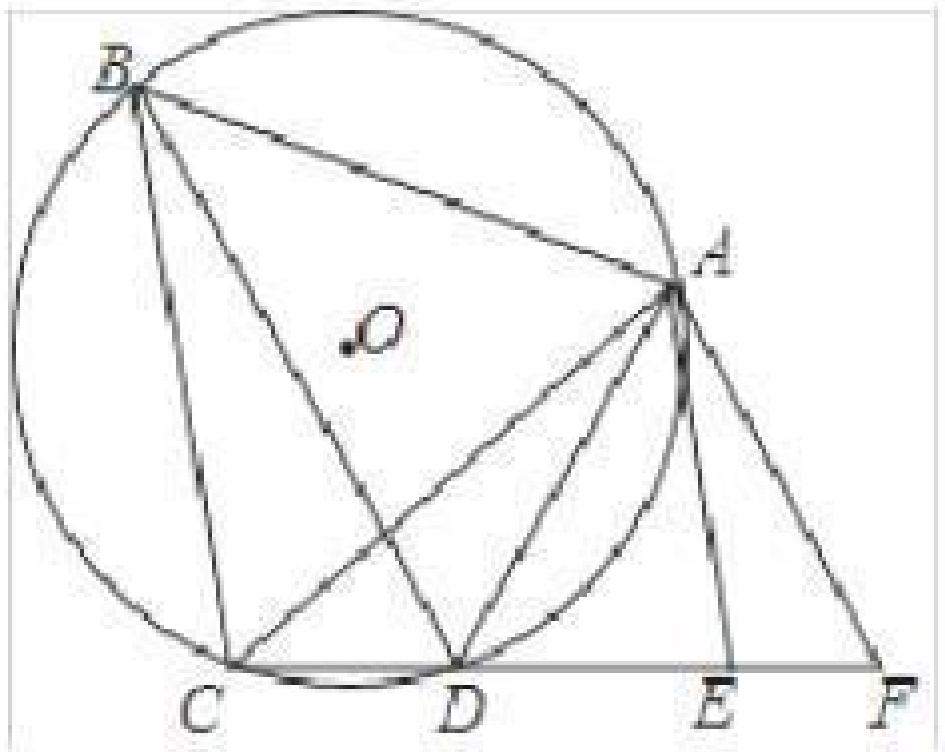
1

EA

0

2

BD=CF



12

2018

AB

O

CO

AO

M



A

C

B

AM

OC

D

OM

CM

1

10

AOM=60

DM

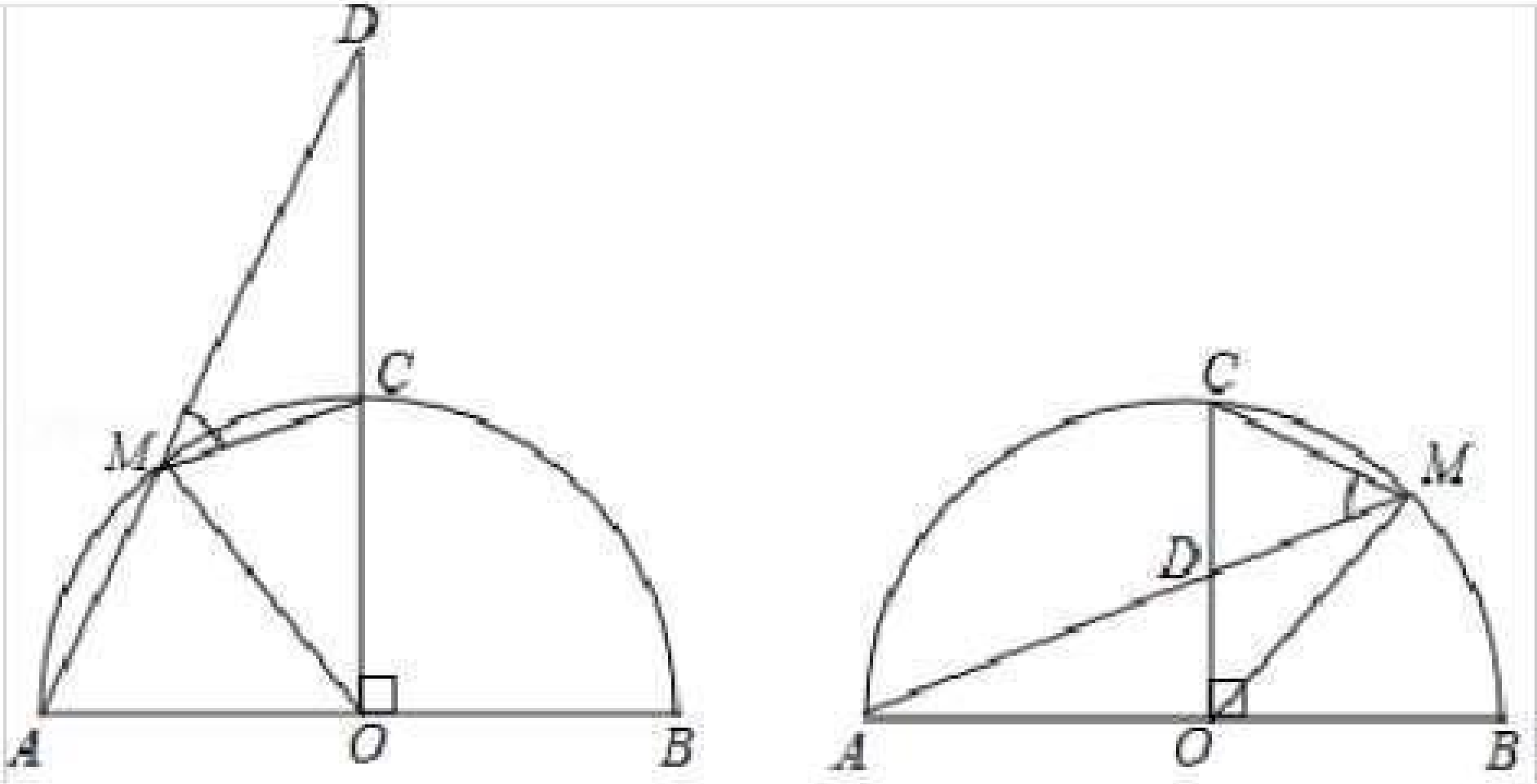
AM=12

DM

2

M

DMC



14

2018

AB

0

AC

0

A

BC

0

D

E

AC

1

DE

0

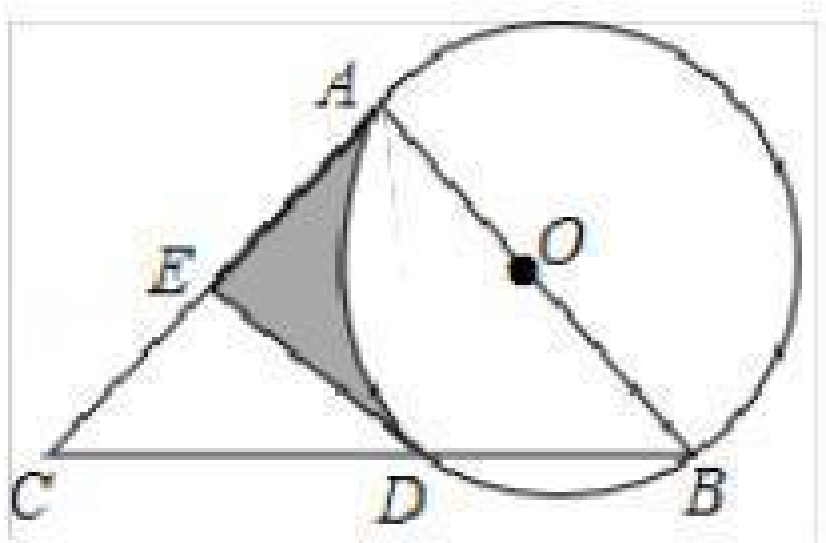
2

0

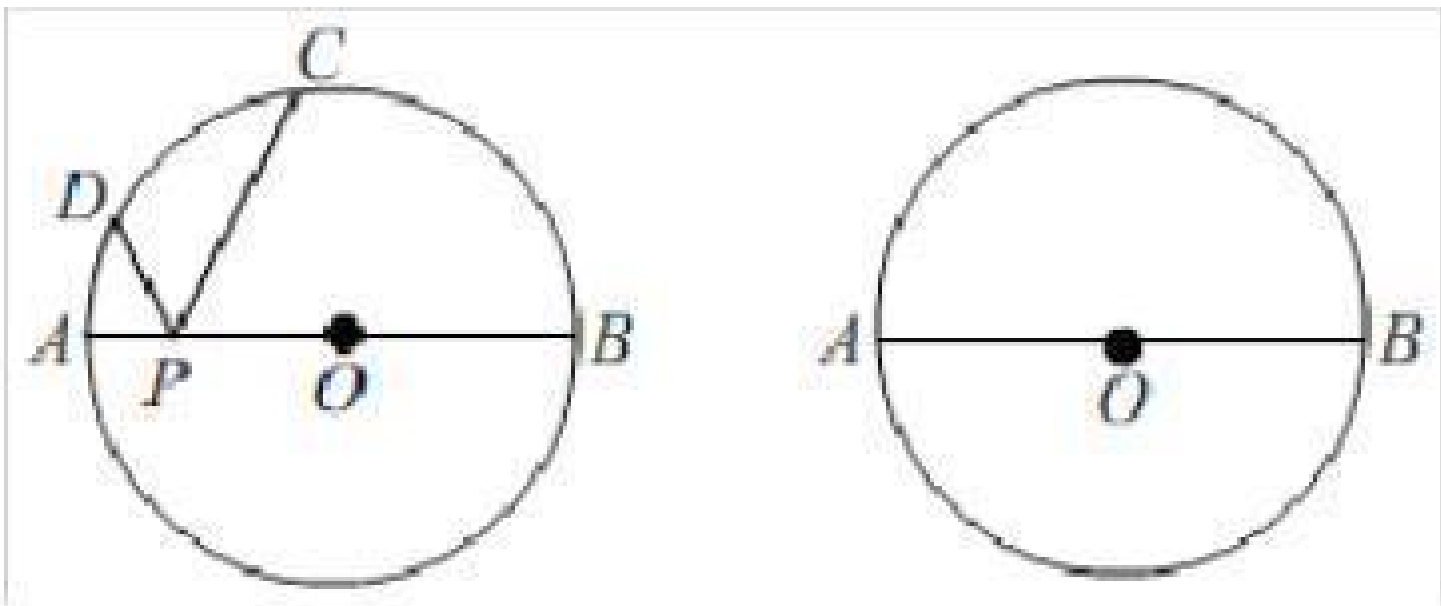
2

B=50

AC=4.8



15	2018	0	AB=26	P	AB	A	B	C
D	0	APD=	BPC	CPD	AB			
1	BPC=	DPC=60	CPD	AB				
2			CPD					
3	AB	120	PCD	24+13		AP		



16

2018

ABCD

E

AB

DE

A

AF

DE

F

0

C

D

F

AD

G

1

AFG

DFC

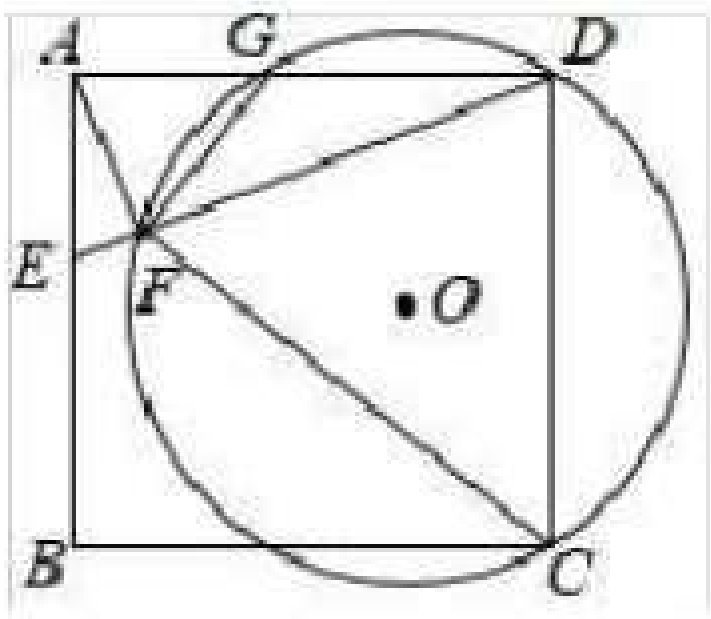
2

ABCD

4

AE=1

0



- 17
- 2018
- ！
- Rt

ABC

AB

D

AD=3

BD=4

ABC

12

3

4

ABC

AD

BD
- ABC

AB

D

AD=m

BD=n
- 1

C=90

ABC

mn
- 2

AC ?BC=2mn

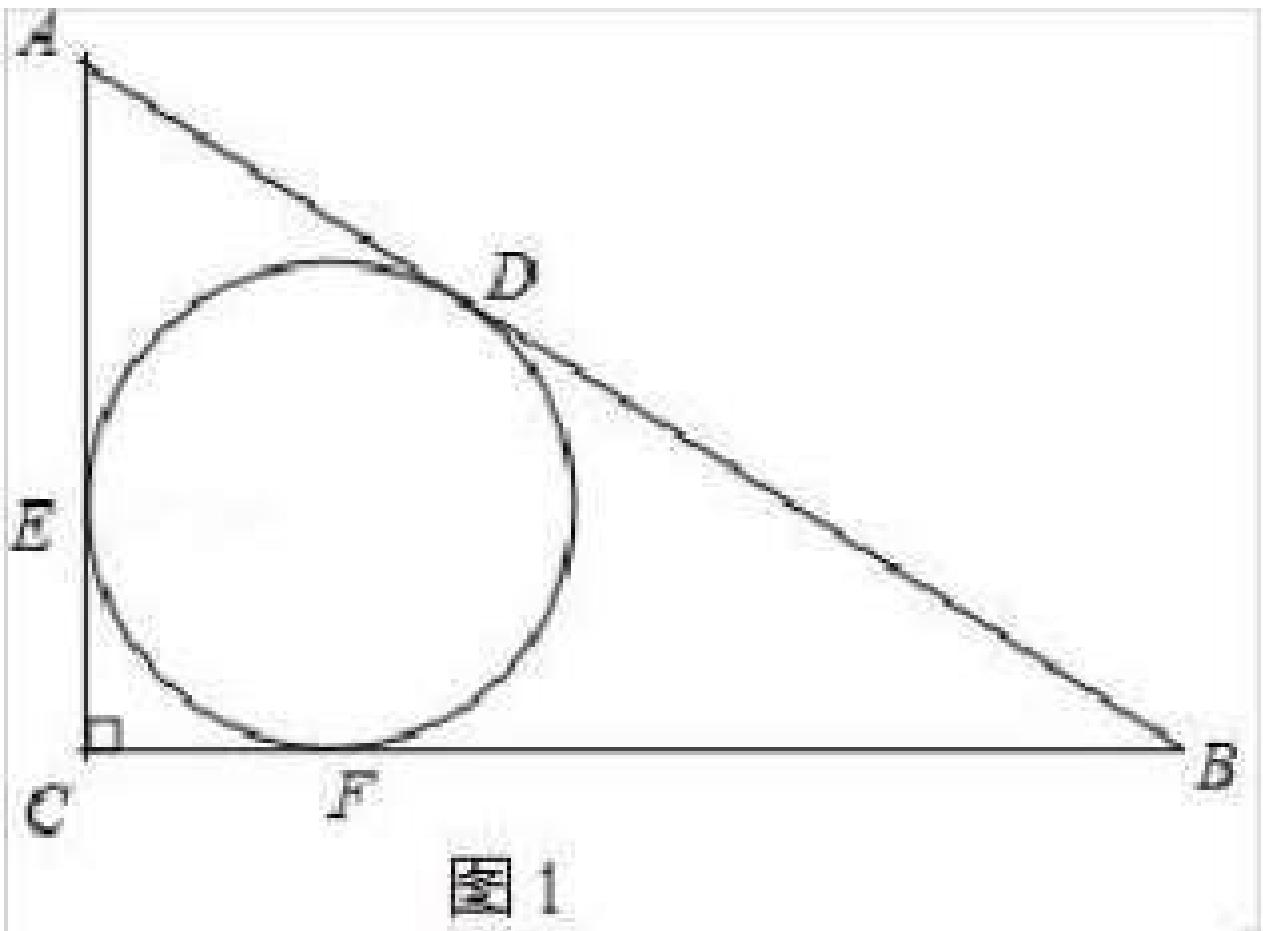
C=90
- 3

C=60

m

n

ABC

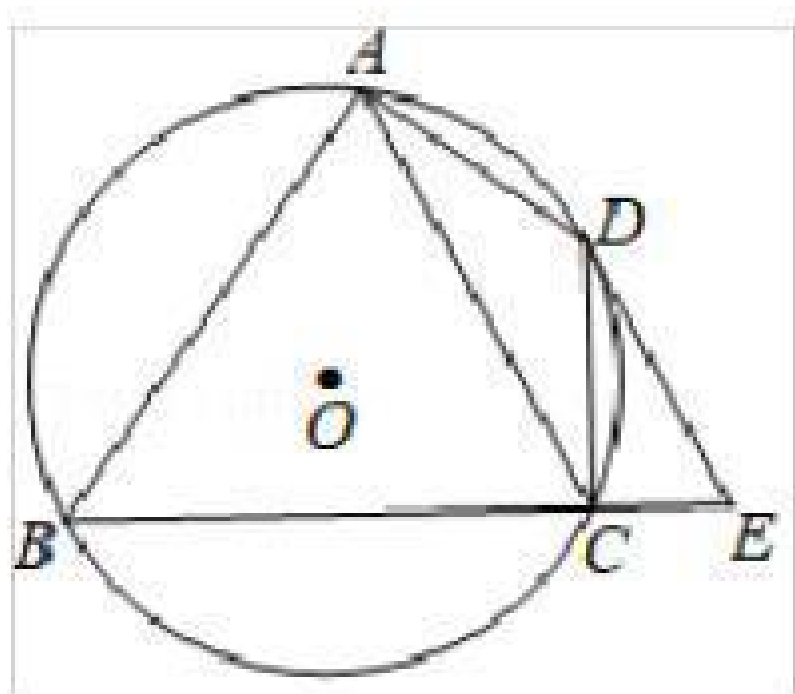


18 2018 ABCD 0 BAD=90 E BC

DEC= BAC

1 DE 0

2 AC DE AB=8 CE=2 AC



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