

8 3

1
A B C D

2
A B 90
C D

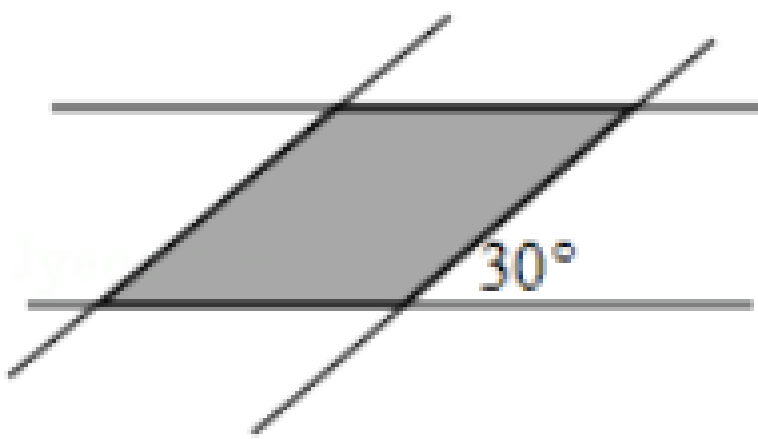
3 ABC AB=AC BA CA D E DA=AB EA=CA
BCDE

A B C D

4 ABCD

A B AB=BC C $AB = \frac{1}{2}AC$ D A+ C=180

5 1 30



A 2 B $\frac{\sqrt{3}}{2}$ C 1 D $\frac{1}{2}$

6 ABCD

A AC BD AC BD B AB=BC=CD=DA

C AB=BC AD=CD AC BD D AB=CD AD=BC AC BD

7 ABCD

A AC BD B AC=BD C AC=BD AC BD D AC BAD

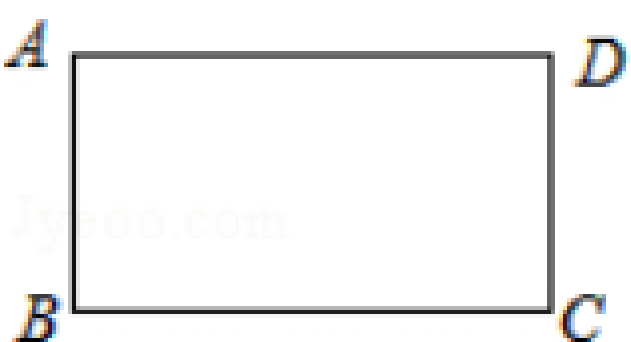
8 ABC C=90 O ABC OD BC D OE AC E OF AB
F AB=10cm BC=8cm AC=6cm O AB AC BC

A 2cm 2cm 2cm B 3cm 3cm 3cm C 4cm 4cm 4cm D 2cm 3cm 5cm

6 3

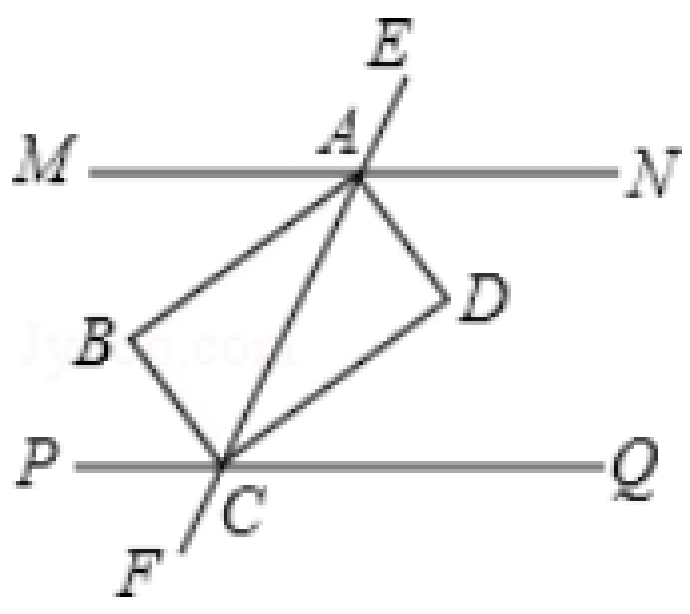
9 ABCD AD BC AD=BC A= _____

ABCD

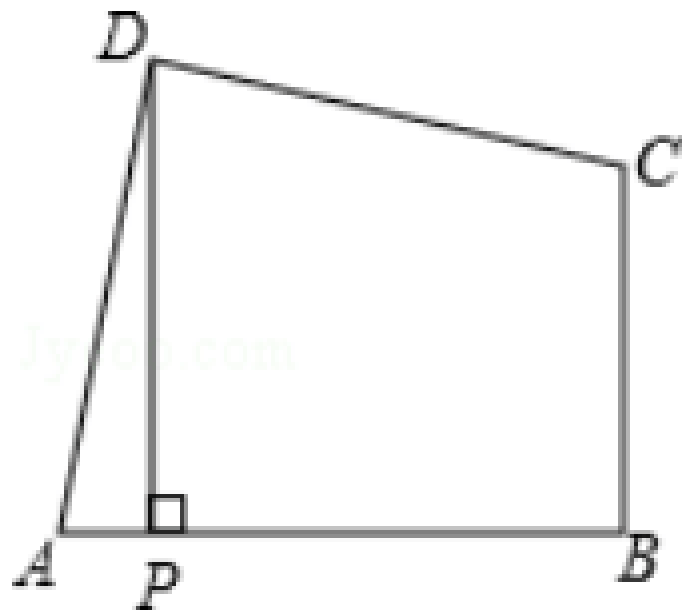


10 MN PQ EF MN PQ A C A C

B D ABCD _____



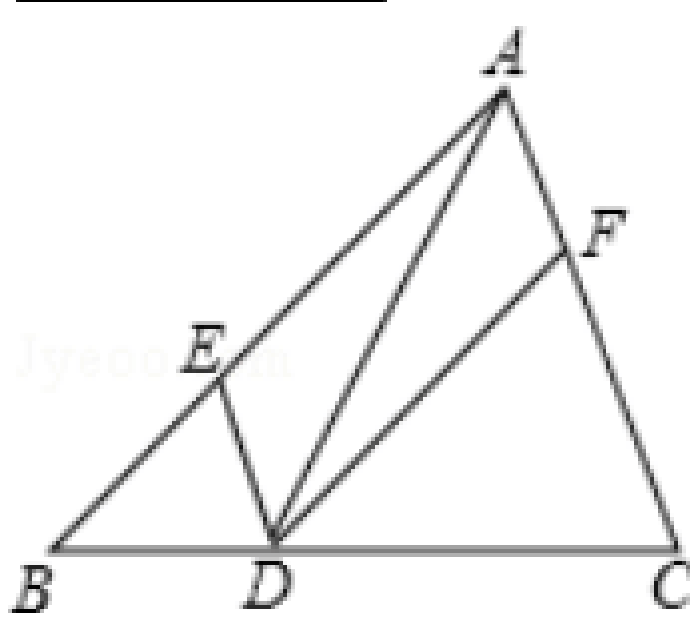
11 ABCD $\angle ADC = \angle ABC = 90^\circ$ $AD = CD$ DP AB P ABCD
 18 DP _____



12 ABCD $\angle A = \angle B = \angle C = \angle D$ ABCD _____

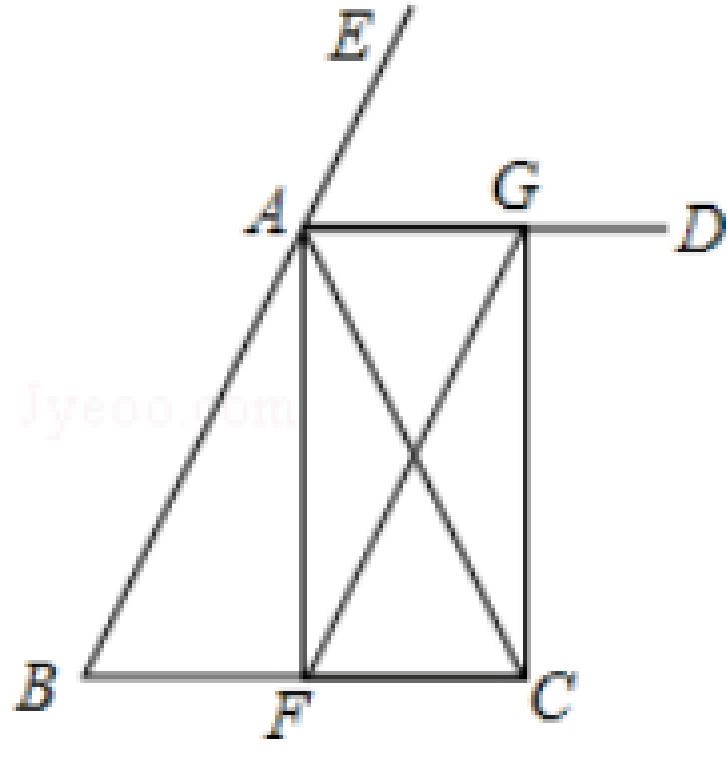
13 _____

14 ABC D BC DE AC DF AB ABC AD
 _____ AEFD



11

15 6 CAE ABC AD EAC AD BC C CG AD
 G AF BC FG
 1 $AC = FG$
 2 AC FG ABC

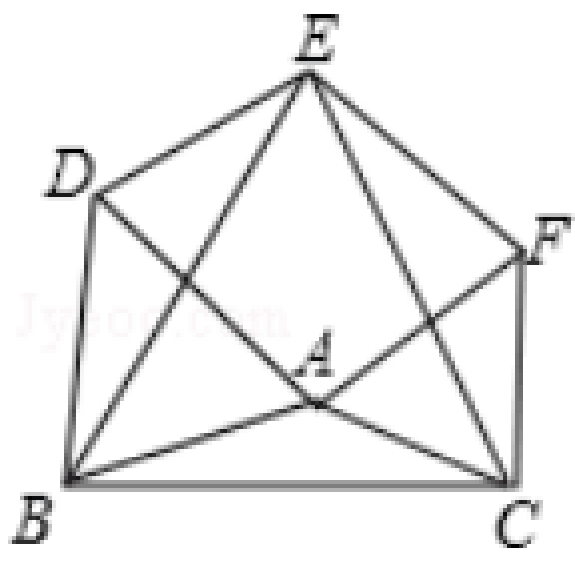


16 6 ABC BC ABD BCE ACF

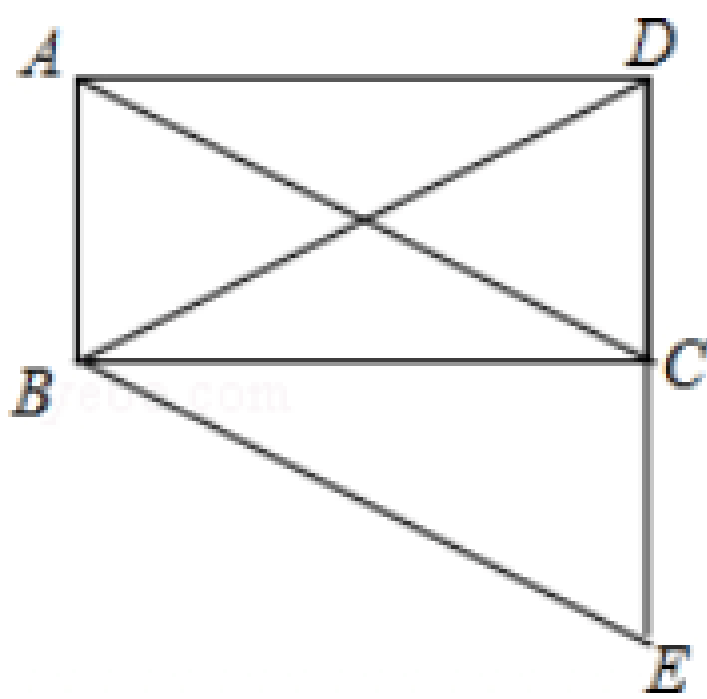
1 AFED
 2 ABC AFED

3 ABC AFED

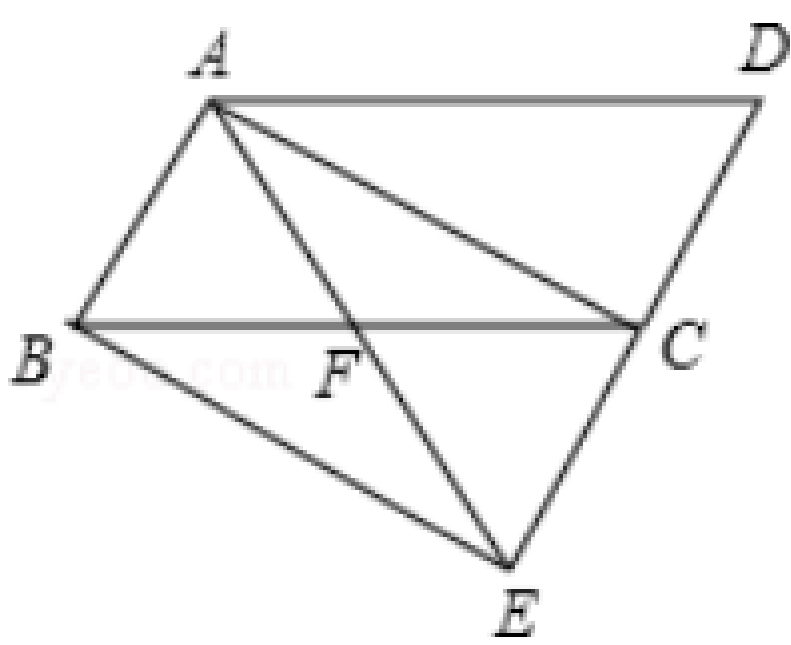
4 ABC ?AFED



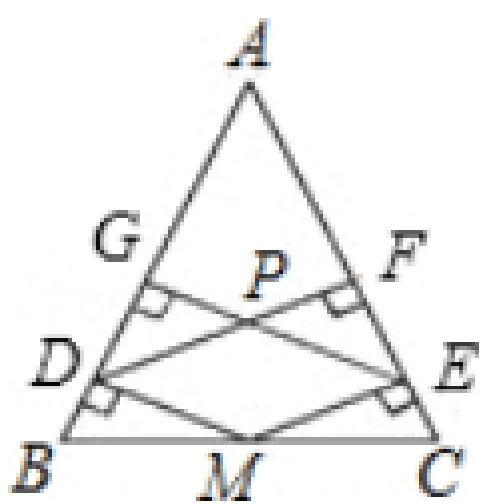
17 6 BC BED DE ABEC ABCD



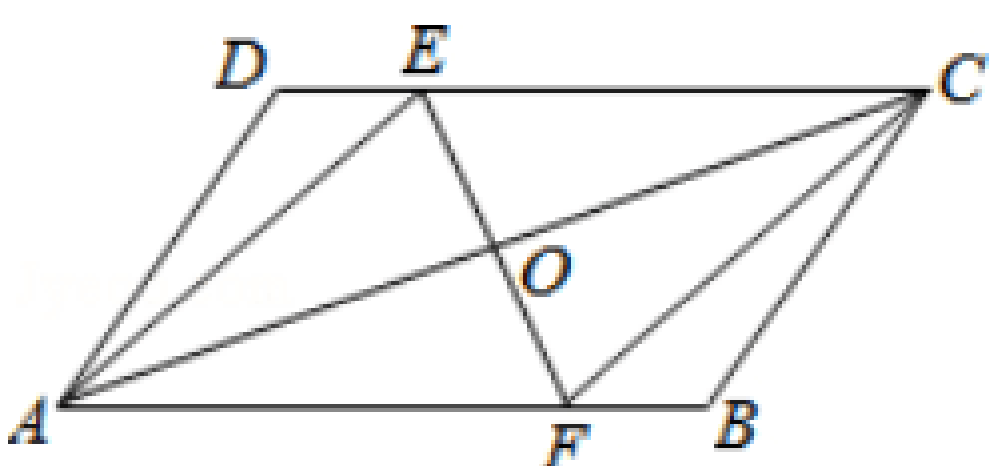
18 6 ABCD DC E CE=DC AE BC F
 1 AC=BE
 2 AFC=2 D AC BE ABEC



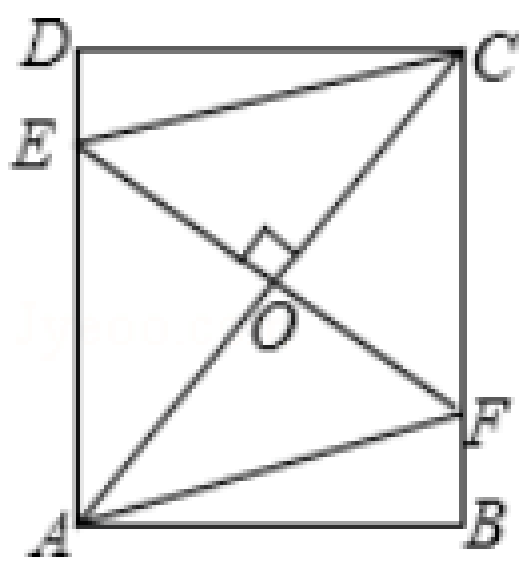
19 6 ABC AB=AC M BC MD AB ME AC DF AC EG AB
 D E F G DF EG P MDPE



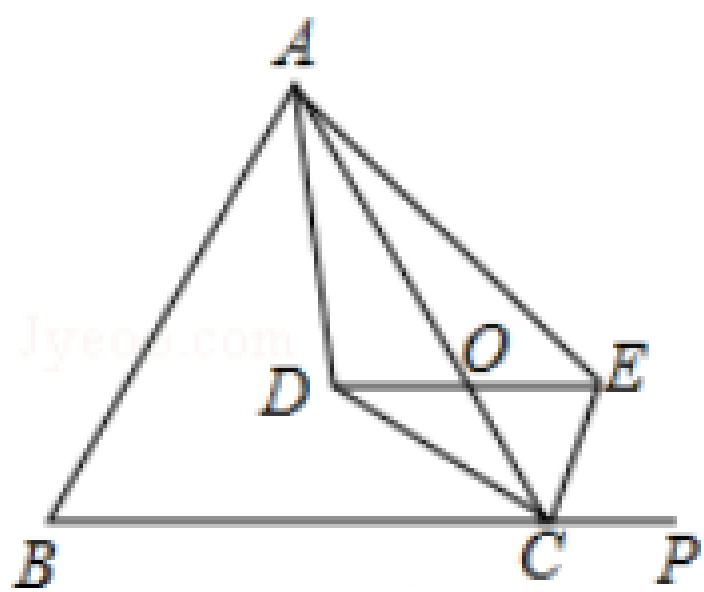
20 8 ABCD AC CD AB E F AC O
 AECF



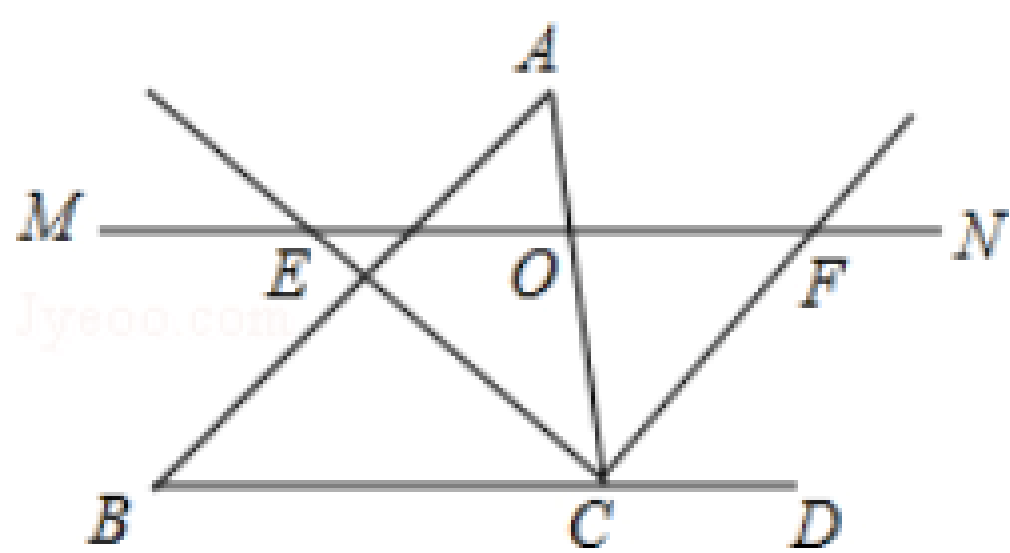
21 8 ?ABCD AC EF AD BC AC E F O
 AF EC AFCE



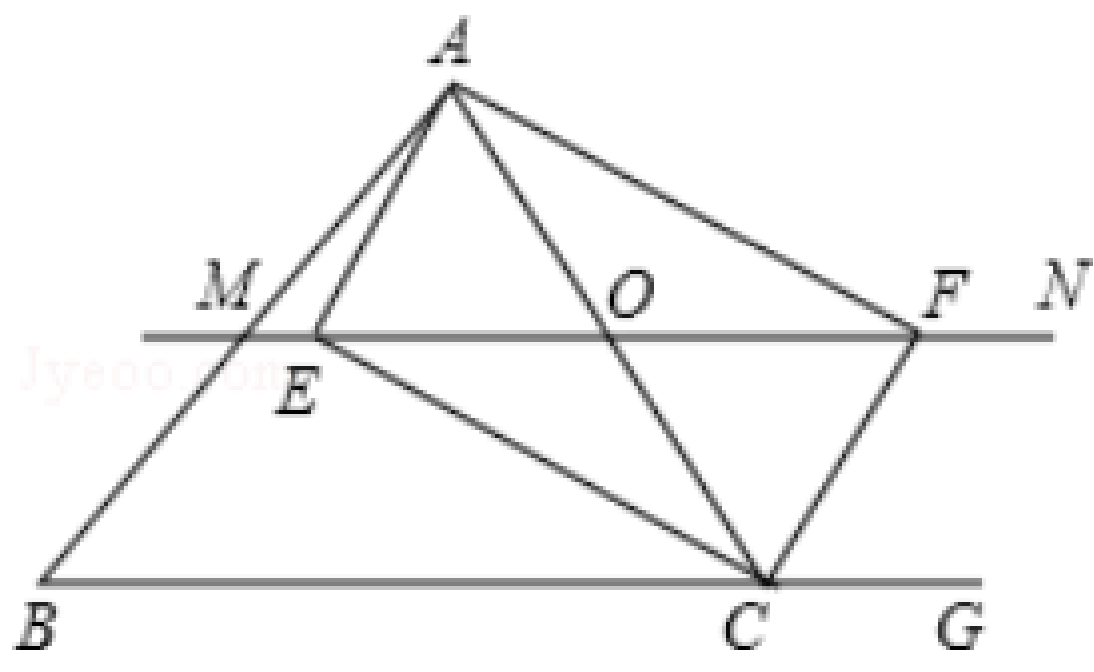
22 8 ABC O AC P BC O DE BC ACB
 ACP D E
 1 O ADCE
 2 1 AC BC ADCE



23 8 ABC O AC MN BC MN ACB
 E ACB F
 1 OE=OF
 2 O AC AECF
 3 O AC ABC AECF

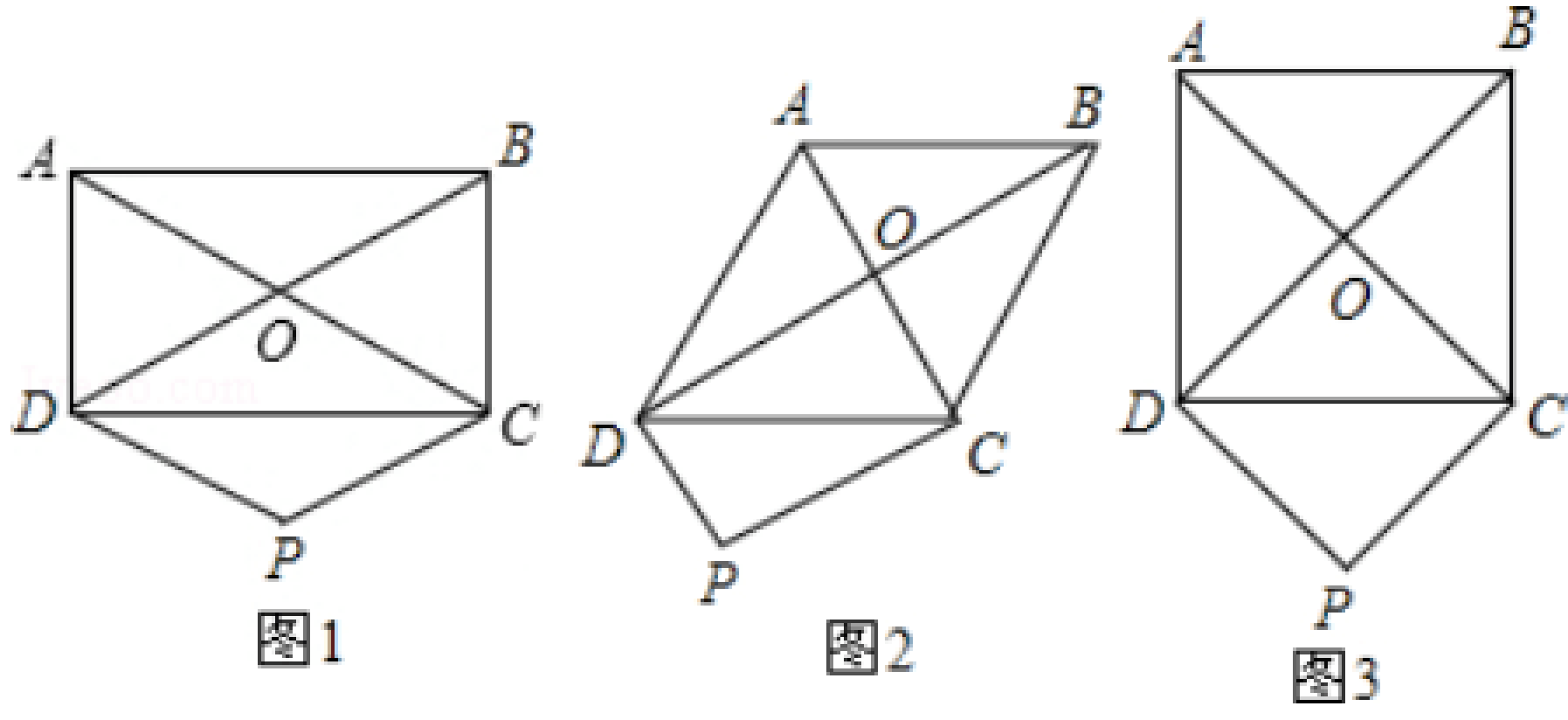


24 8 ABC O AC MN BC ACB
 E ACB F
 1 OE OF
 2 O AECF
 3 2 ABC AECF

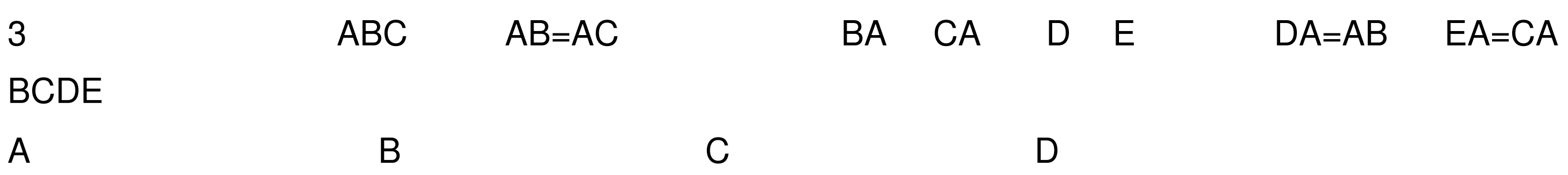
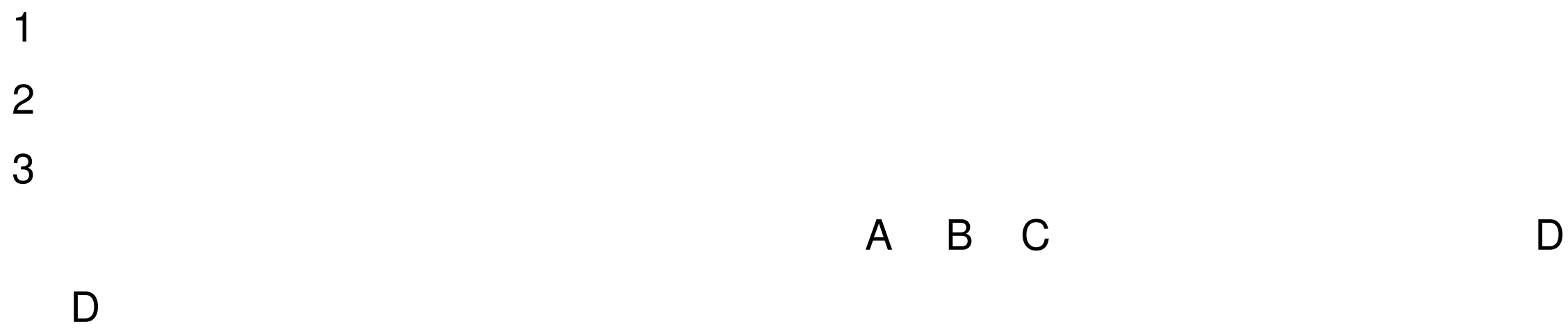
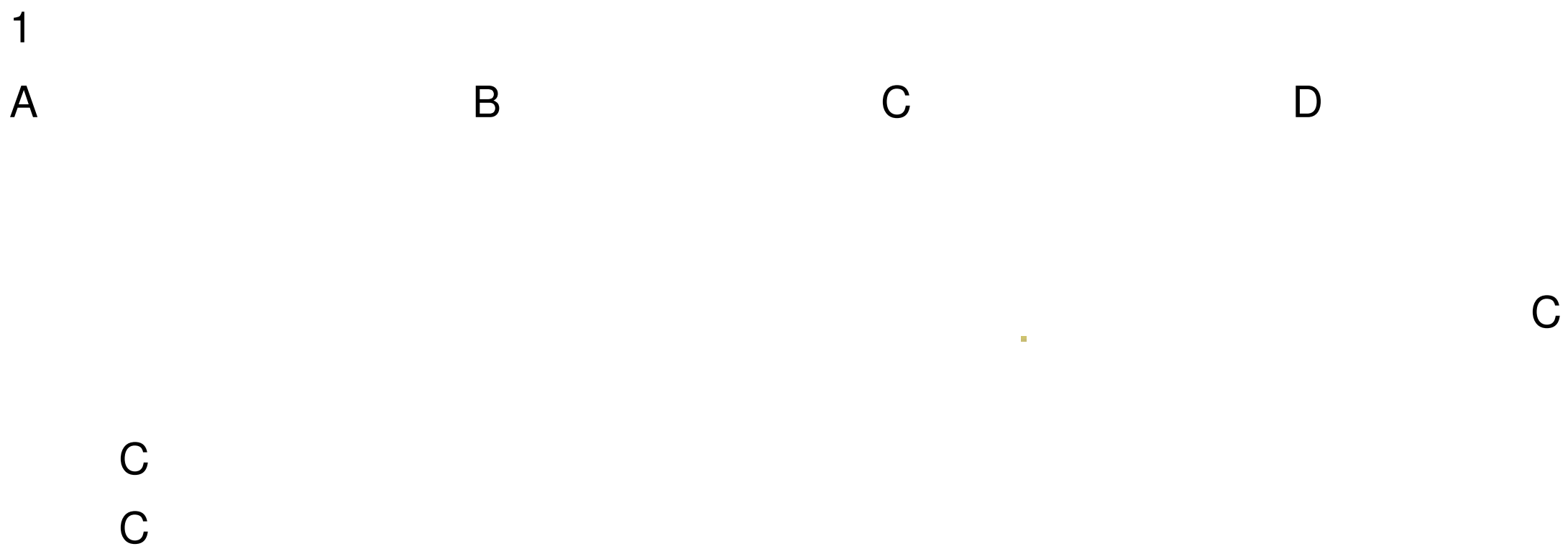


25 8 1 ABCD AC BD O D DP OC DP=OC CP
 CODP

2
 3



8



90

AC=AE AB=AD

BCDE

AB=AE AEB= ABE

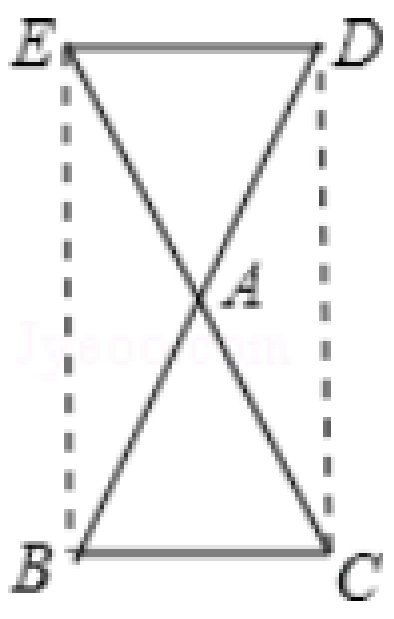
BAC+ ABC+ ACB=180

ABC= ACB

ABC+ EBA=90

BCDE

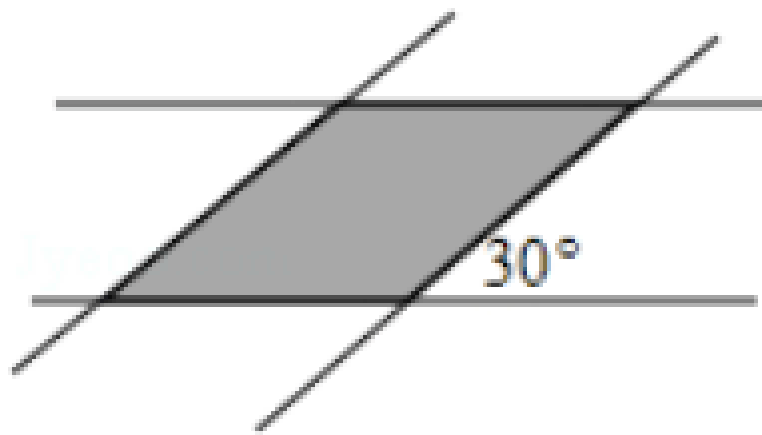
B



4 ABCD
 A B AB=BC C $AB = \frac{1}{2}AC$ D A+ C=180

A= C=90
 D A C A= C A+ C=180

2 3 1
 5 1 30



A 2 B $\frac{\sqrt{3}}{2}$ C 1 D $\frac{1}{2}$

30
 30 1
 2 2
 30
 1 2
 2
 A

30

6 ABCD
 A AC BD AC BD B AB=BC=CD=DA
 C AB=BC AD=CD AC BD D AB=CD AD=BC AC BD

A AC BD

ABCD

AC BD

ABCD

B AB=BC=CD=DA

ABCD

C AB=BC AD=CD AC BD

ABCD

D AB=CD AD=BC

ABCD

AC BD

ABCD

C

7 ABCD

A AC BD B AC=BD C AC=BD AC BD D AC BAD

ABCD

AC BD

ABCD

AC=BD

ABCD

A

ABCD

AC BD

ABCD

B ABCD

AC=BD

ABCD

C ABCD

AC BD

ABCD

AC=BD

ABCD

D ABCD

AC BAD

ABCD

C

8 ABC C=90 O ABC

OD BC D OE AC E OF AB

F AB=10cm BC=8cm AC=6cm O

AB AC BC

A 2cm 2cm 2cm B 3cm 3cm 3cm

C 4cm 4cm 4cm D 2cm 3cm 5cm

OA OB OC

BDO BFO

CDO CEO AEO AFO

BD=BF CD=CE AE=AF

O AB AC BC

CD AB=8 CD+6 CD=10

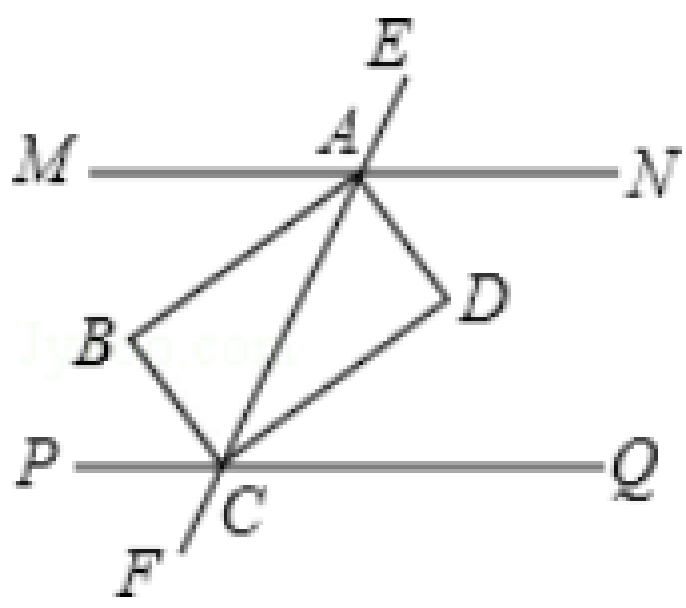
CD=2 O AB AC BC

2

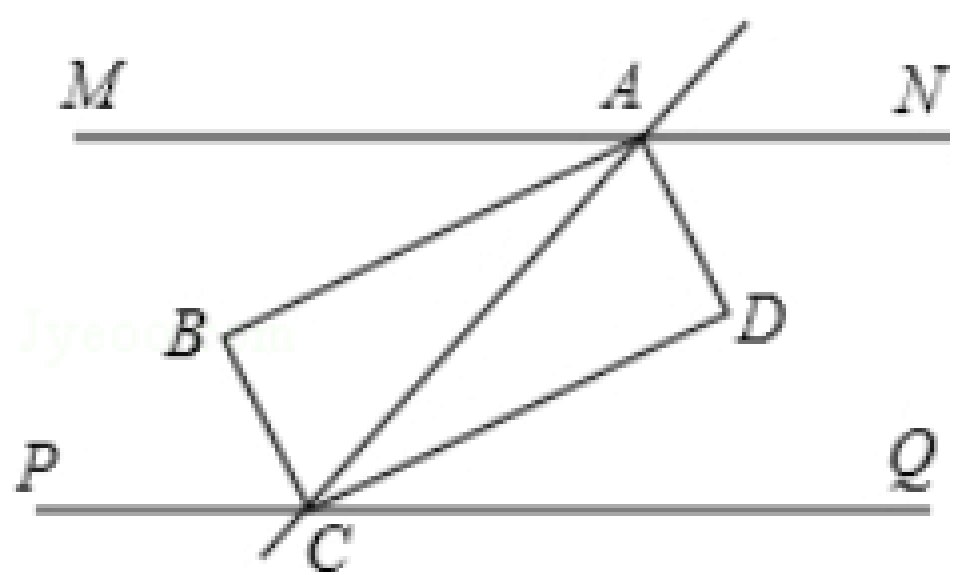
OA OB OC

BDO BFO CDO CEO AEO AFO

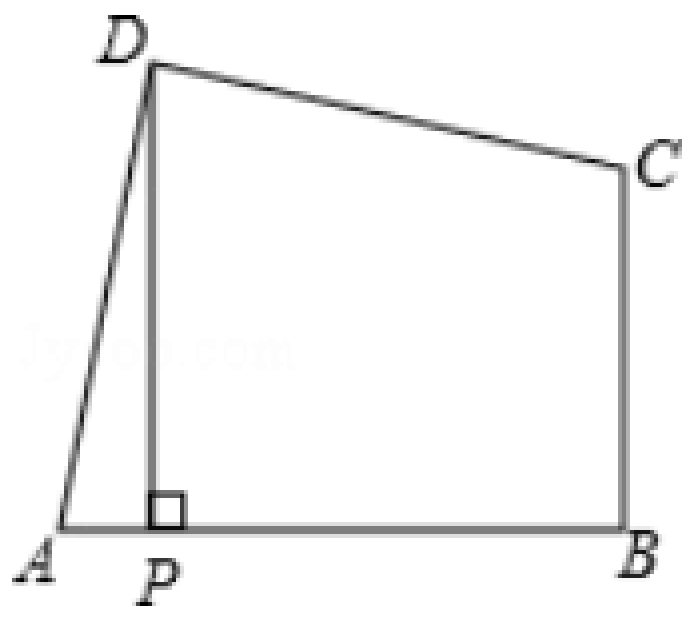
BD=BF CD=CE AE=AF



$BAC = DCA$ $AB \parallel CD$ $BCA = DAC$ $AD \parallel CB$
 ABCD $ABC = 90^\circ$ ABCD
 $MN \parallel PQ$
 $MAC = ACQ$ $ACP = NAC$
 $AB \parallel CD$ $MAC = ACQ$
 $BAC = \frac{1}{2} MAC$ $DCA = \frac{1}{2} ACQ$
 $MAC = ACQ$
 $BAC = DCA$
 $AB \parallel CD$
 $AD \parallel CB$ $ACP = NAC$
 $BCA = \frac{1}{2} ACP$ $DAC = \frac{1}{2} NAC$
 $ACP = NAC$
 $BCA = DAC$
 $AD \parallel CB$
 $AB \parallel CD$
 ABCD
 $BAC = \frac{1}{2} MAC$ $ACB = \frac{1}{2} ACP$
 $MAC + ACP = 180^\circ$
 $BAC + ACP = 90^\circ$
 $ABC = 90^\circ$
 ABCD

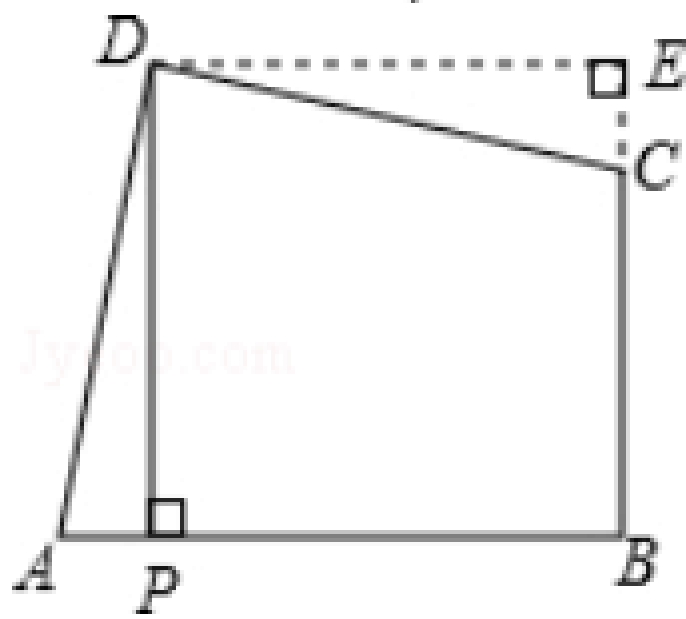


11 ABCD $ADC = ABC = 90^\circ$ $AD = CD$ DP AB P ABCD
 18 DP $3\sqrt{2}$



$ADP = CDE$
 $DE = DP$
 $ADC = ABC = 90^\circ$
 $DP \perp AB$
 $APD = 90^\circ$
 $APD = E = 90^\circ$
 $ADP = CDE$
 $\begin{cases} \angle ADP = \angle CDE \\ \angle APD = \angle E \\ AD = CD \end{cases}$
 $ADP = CDE$ (AAS)
 $DE = DP$ (ABCD) = $DPBE$ = 18

$DP = \sqrt{18} = 3\sqrt{2}$
 $3\sqrt{2}$



12 ABCD A= B= C= D ABCD _____

ABCD 360 A= B= C= D=90
 $A + B + C + D = 360$ A= B= C= D
 A= B= C= D=90
 ABCD

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