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大连市三十九中学初三数学圆练习卷

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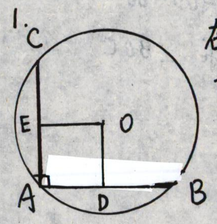
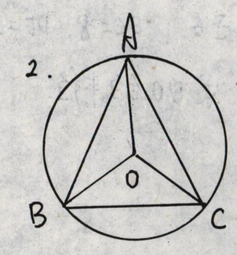
1.



在⊙O中，AB、AC为互相垂直的两条弦，OD⊥AB于D，OE⊥AC于E

求证：四边形ADOE为正方形.

2.

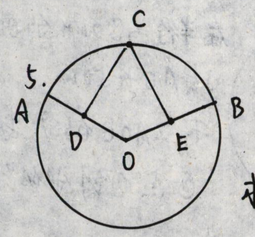


在⊙O中 $\overset{\frown}{AB}=\overset{\frown}{AC}$

$\angle ACB=60^\circ$

求证：$\angle AOB=\angle BOC=\angle AOC$.

5.

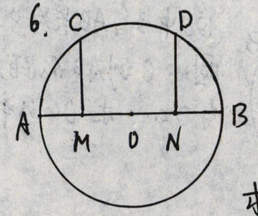


如图：$\overset{\frown}{AC}=\overset{\frown}{CB}$.

D、E分别为OA、OB中点，

求证：CD=CE

6.



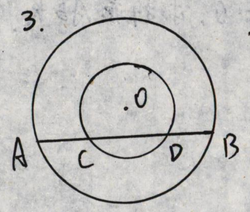
AB为⊙O的直径

M、N分别是OA、OB的中点，CM⊥AB于M

DN⊥AB于N

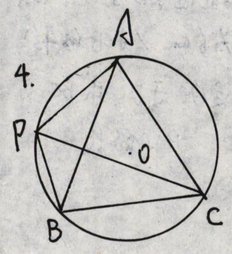
求证：$\overset{\frown}{AC}=\overset{\frown}{BD}$

3.



如图 同心圆的大圆弦AB与小圆交于C、D两点 求证：AC=DB.

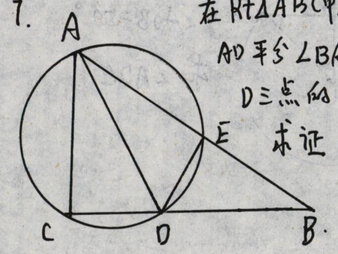
4.



A、P、B、C是⊙O上的四点，$\angle APC=\angle CPB=60^\circ$

判断△ABC的形状并证明.

7.

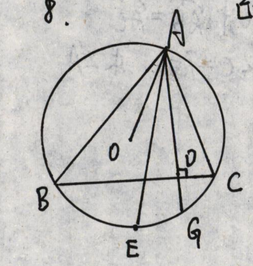


在Rt△ABC中，$\angle ACB=90^\circ$

AD平分$\angle BAC$，过A、C、D三点的圆交AB于E

求证：AC=AE

8.



已知：A、B、C三点在⊙O上

AD⊥BC于D交⊙O于G

E为$\overset{\frown}{BC}$的中点.

求证：$\angle EAD=\angle EAO$