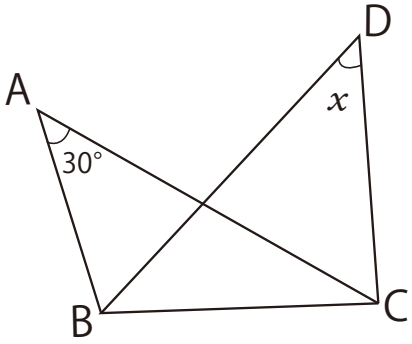
円周角の定理の逆

NO.2　　名前　　／8　点

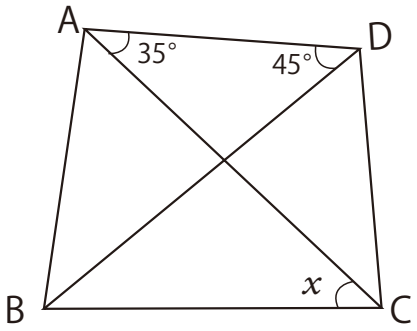
1　次の図で４点A,B,C,Dが同じ円周上にあるためには、

∠　x　が何度であればよいか求めなさい。

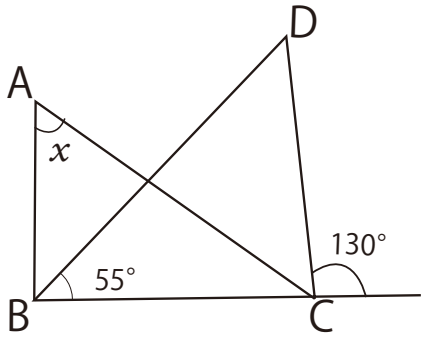
①



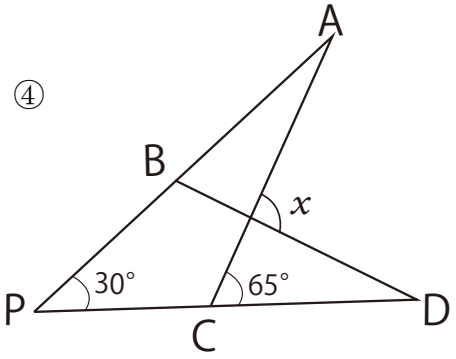
②



③

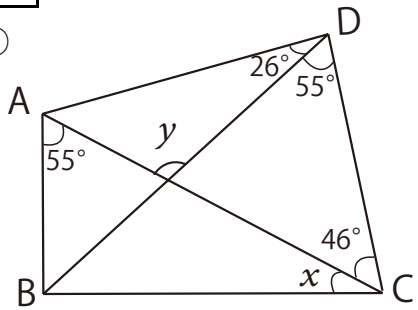


④

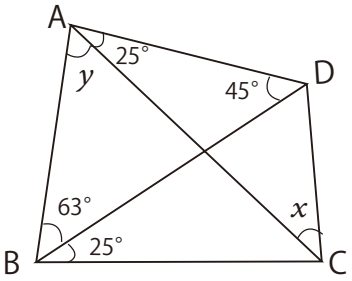


2　次の図で　∠x ，∠　y　の大きさを求めなさい。

①



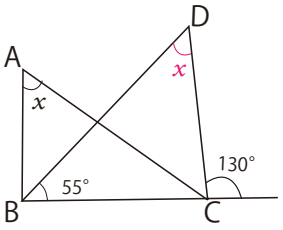
②



解答

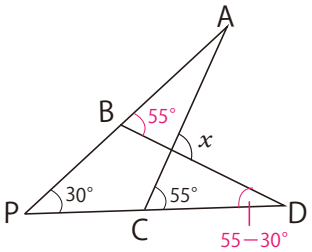
1　①　30 °　　②　45 °

③



130 − 55 = 75 °

④



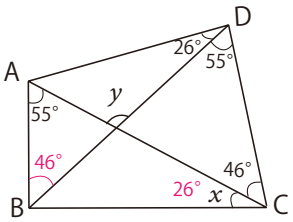
55 − 30 = 25 °

25 ＋ 55 = 80 °

1　①　∠BAC=∠BDC　なので、 4点A,B,C,Dが同じ円周上にある

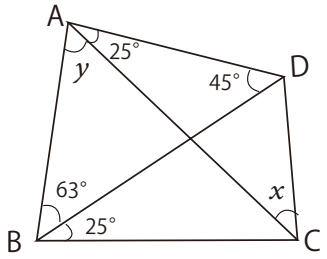
∠x = 26 °

∠y = 46 ＋ 55 = 101 °



②　∠CAD=∠CBD　なので、 4点A,B,C,Dが同じ円周上にある

∠x = 62 °

∠y = 180 − (45 ＋ 63 ＋ 25)

= 47 °