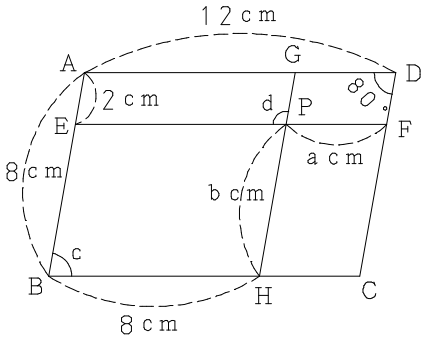
１．　$a = 12 - 8 = 4cm$

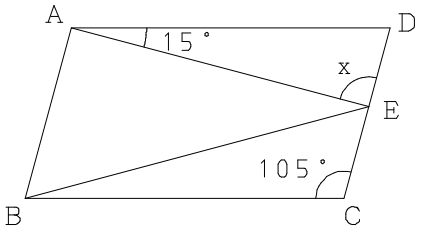
$b = 8 - 2 = 6cm$

∠c＝80°

∠d＝180－80＝100°

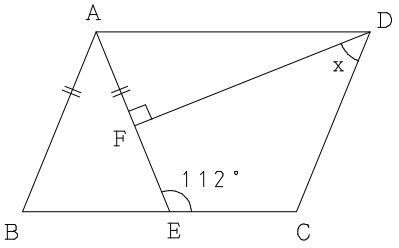


２．



∠ADE＝180－105＝75°

x＝180－(15＋75)＝90°



(AB=AE,　∠AFD=90°)

∠AEG＝∠ABE＝∠FAD＝180－112＝68°

∠ADF＝90－68＝22°

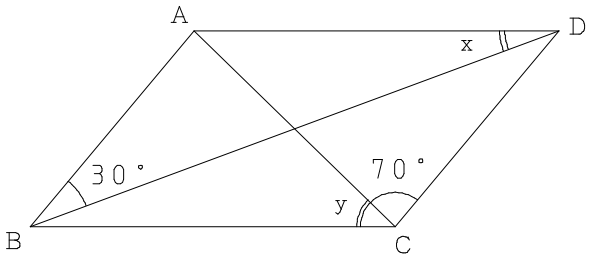
x＝68－22＝46°

３．　∠CBD＝x　　∠BAC＝70°

△ABCで

x＋y＋30＋70＝180°　より

x＋y＝80°



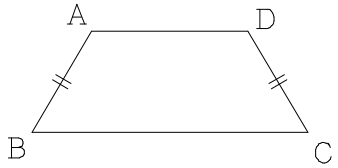
４．　①　（理由）1組の向かい合う辺が，等しくて平行

④　（理由）2組の向かい合う辺が，それぞれ平行
2組の向かい合う角が，それぞれ等しい

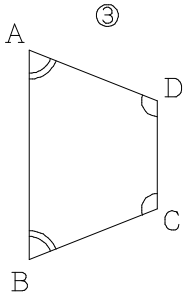
⑤　（理由）1組の向かい合う辺が，等しくて平行

下図は平行四辺形にならない例

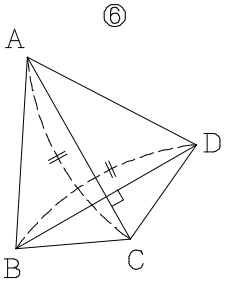
②



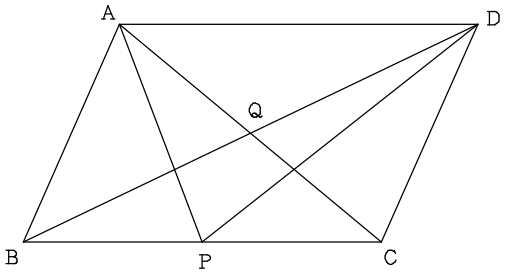
③



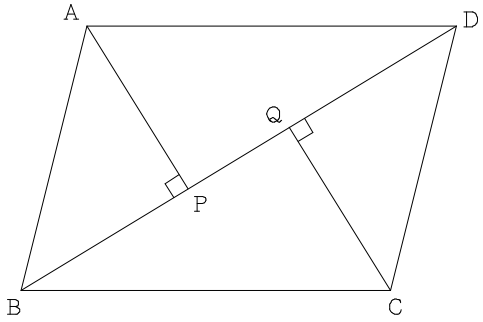
⑥



５．　△AQD，△QBC，△ABQ，△DQC，△DPC，
△DBP，△ABP　の7個



６．　ア　△CDQ　　イ　AB＝CD
ウ　錯角　　エ　∠ABP＝∠CDQ
オ　∠APB＝∠CQD　　カ　斜辺と1つの鋭角
キ　AP＝CQ



以上