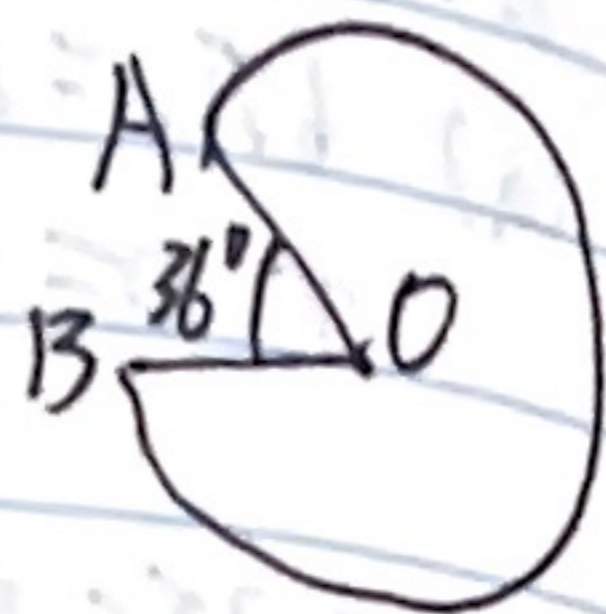


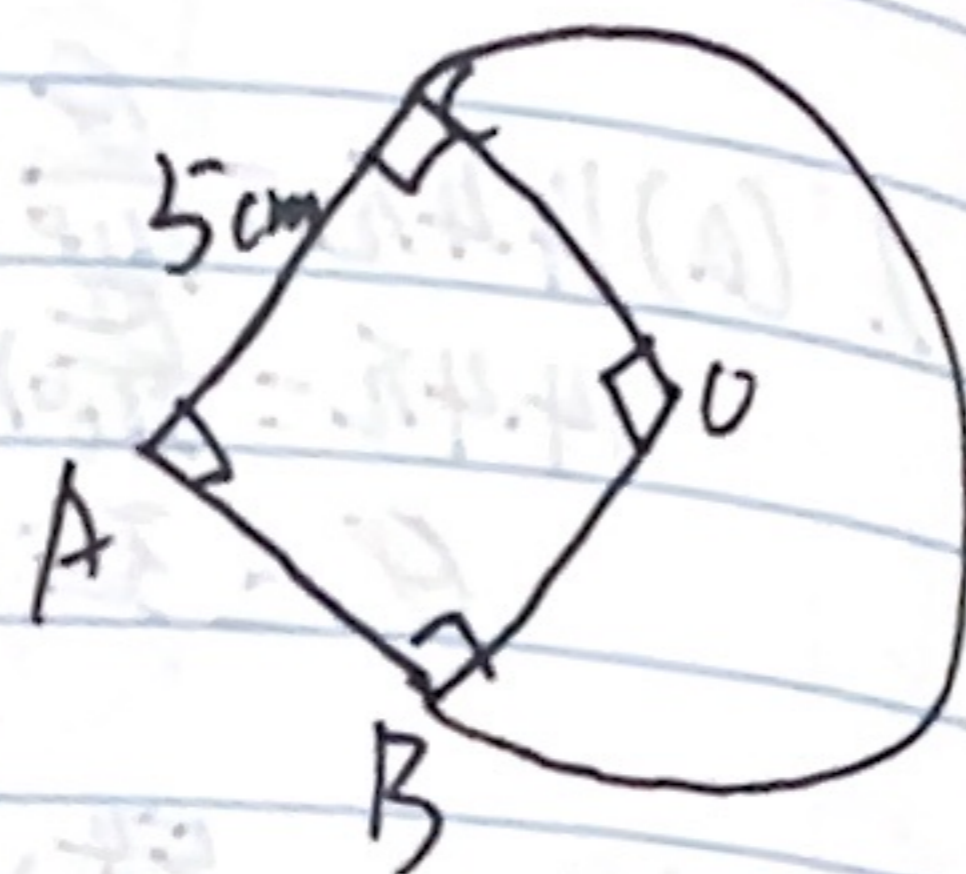
9. \widehat{AB} 设半径为 r
得 $202.5\pi = \frac{324^\circ}{360^\circ} \times \pi r^2$

$r = 15 \text{ cm}$
 $\widehat{AB} = \frac{324^\circ}{360^\circ} \times 2\pi r = 27\pi$
 $= 84.8 \text{ cm (3 sig fig)}$



10. (a) $\widehat{BC} = \frac{270^\circ}{360^\circ} \times 2\pi r = 7.5\pi$
 $= 23.6 \text{ cm (3 sig fig)}$

(b) 周长 = $23.6 + 10 = 33.6 \text{ cm}$



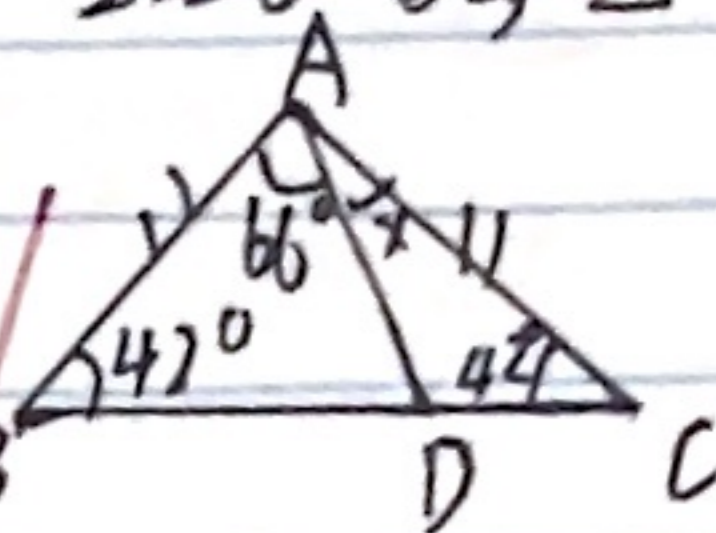
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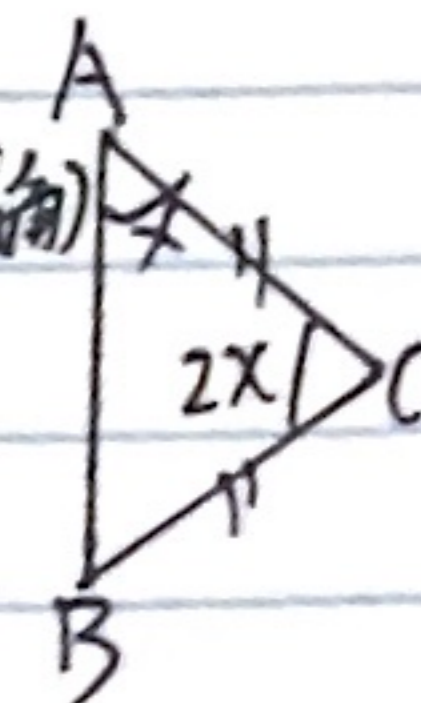
HW 7 Ex 2.2 (17, 20, 25, 29, 30)

17. $x = x + 42^\circ = 180^\circ - 66^\circ - 42^\circ$ (外角)
 $x = 30^\circ$

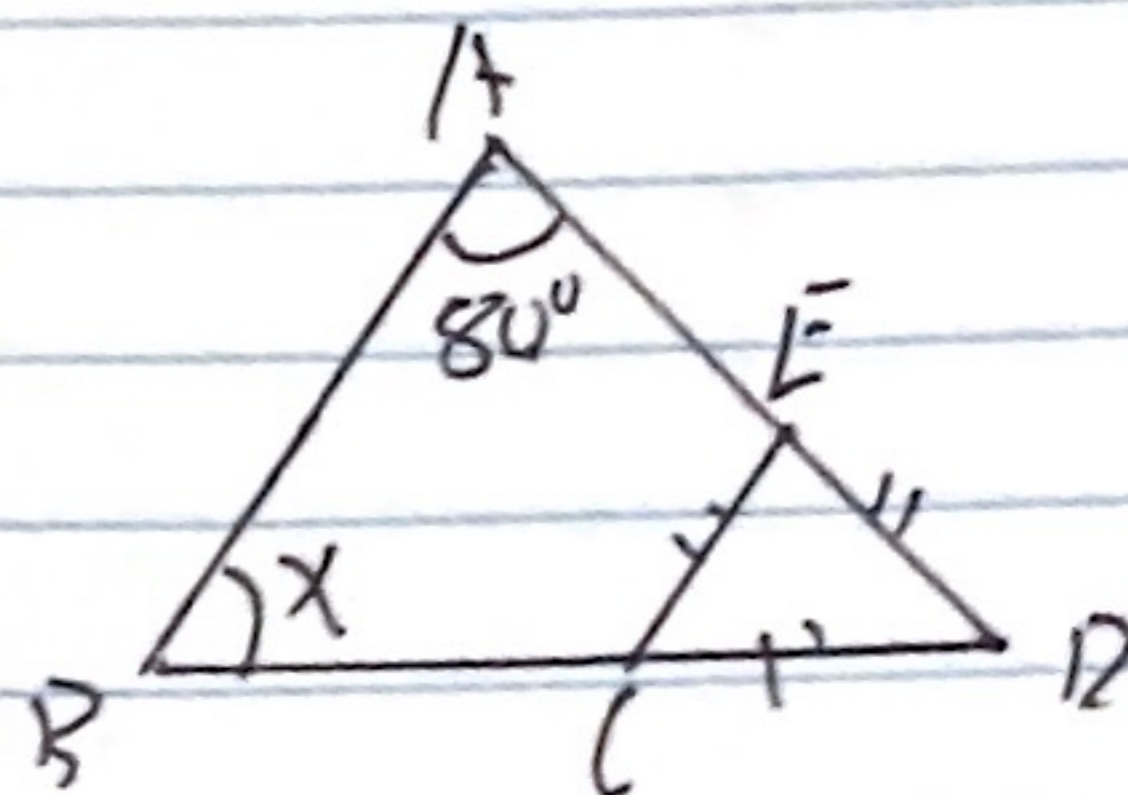
$\therefore \triangle ABC$ 为等腰 $\therefore \angle ABC = 42^\circ$ (等腰 \triangle 底角)



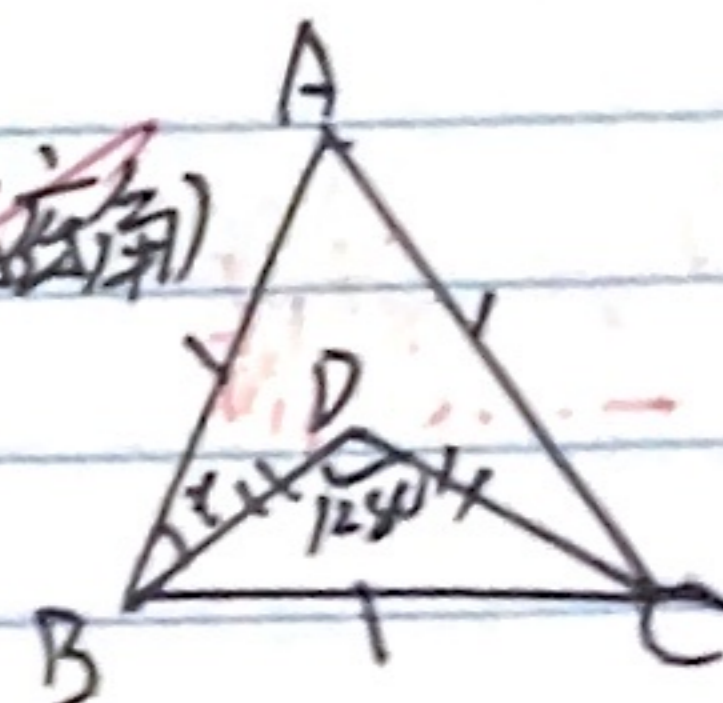
20. $\because AC = BC \therefore \triangle ABC$ 是等腰 $\angle ABC = x$ (底角)
 $\therefore x + x + 2x = 180^\circ$ (等 \triangle 内角和)
 $x = 45^\circ$



25. $\because \triangle EDC$ 三边相等
 $\therefore \angle E = \angle C = \angle D = 60^\circ$
 $\therefore x = 180^\circ - 180^\circ - 60^\circ$
 $x = 40^\circ$

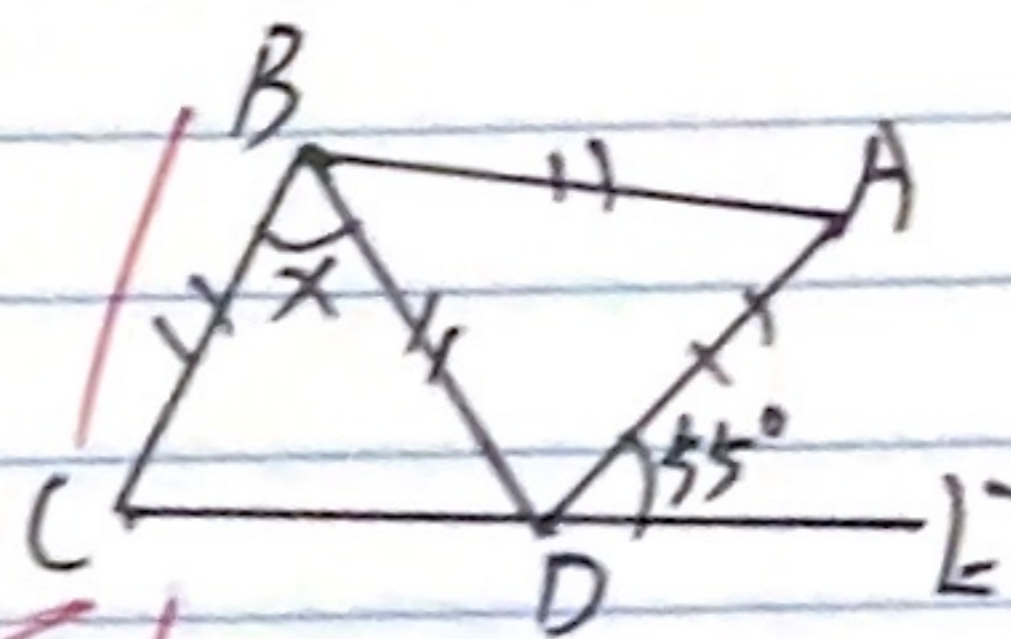


29. $\because BD = DC \therefore \triangle DBC$ 是等腰
 $\therefore \angle DBC = \angle DCB = (180 - 128) \div 2 = 26^\circ$ (等 \triangle 底角)
又: $\triangle ABC$ 为等边 \triangle
 $\therefore \angle ABC = 60^\circ$
 $\therefore x = \angle ABC - \angle DBC = 60^\circ - 26^\circ = 34^\circ$



10
10

30. $\because \triangle ABC$ 三边相等 $\therefore \angle BDA = 60^\circ$
 $\therefore \angle BDC = 180^\circ - 60^\circ - 55^\circ = 65^\circ$
又: $BC = BD \therefore \angle BCD = \angle BDC$



$\therefore x = 180^\circ - 65^\circ - 65^\circ = 50^\circ$ (等 \triangle 内角和)

3/3/2006

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