

请在各题目的答题区域内作答，超出黑色矩形边框限定区域的答案无效

25. (本小题 10 分)

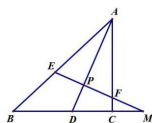


图 1

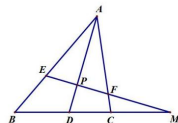


图 2

解:

(1). 由于 $\angle APF = \angle ACM = 90^\circ$.

$$\therefore \angle 1 + \angle AFP = \angle M + \angle CFM$$

$$\therefore \angle AFP = \angle CFM$$

$$\therefore \angle AFP = \angle CFM$$

$$\therefore \angle 1 = \angle M \quad \text{----- } 5'$$

(2) 由题意可得:

$$\angle ACB = \angle M + \angle CFM = \angle M + \angle AFP = \angle M + 90^\circ - \angle 1$$

在四边形 BDEP 中:

$$\begin{aligned} \angle B &= 360^\circ - 90^\circ - (90^\circ + \angle 1) - (90^\circ + \angle M) \\ &= 90^\circ - \angle 1 - \angle M. \end{aligned}$$

$$\therefore \angle ACB - \angle B = \angle M + 90^\circ - \angle 1 - 90^\circ + \angle 1 + \angle M = 2\angle M$$

$$\therefore \frac{(\angle ACB - \angle B)}{2} = \angle M \quad \text{----- } 10'$$

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26. (本小题 10 分)

解:

(1). 由题意可列出方程:

$$(28 - 20)x + (13 - 25)(2000 - x) = 8x + 12000 - 6x = 2x + 12000$$

答: 该商承售完 2000 箱水果的净利润为 $(2x + 12000)$ 元

(2) 设该商承购进蜜桔 x 箱, 则橙 $(2000 - x)$ 箱.

$$(55 - 20 - 25) \frac{1}{2}x + (28 - 20) \frac{4}{5}x + (31 - 25)(2000 - x - \frac{1}{2}x) \geq 13200$$

$$2x + \frac{32}{5}x + 12000 - \frac{5}{2}x \geq 13200$$

$$x \geq 1000$$

答: 该商承至少购进蜜桔 1000 箱.

$$\text{----- } 10'$$

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27. (本小题 10 分)

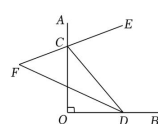


图 1

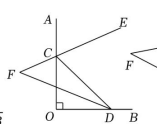


图 2

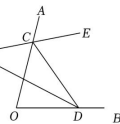


图 3

解:

(1). $\angle F = 45^\circ$ ----- 2'

(2) 不变化. $\angle F = 45^\circ$. 理由如下:

$\therefore CE$ 平分 $\angle ACD$, DF 平分 $\angle ODC$.

$$\therefore \angle ACE = \angle ECD = \frac{1}{2} \angle ACD, \angle CDF = \angle ODF = \frac{1}{2} \angle ODC$$

$$\therefore \angle AOB = 90^\circ$$

$$\therefore \angle ODC = 180^\circ - \angle AOB - \angle OCD = 90^\circ - \angle OCD$$

$$\therefore \angle CDF = 45^\circ - \frac{1}{2} \angle OCD$$

$$\therefore \angle ACD = 180^\circ - \angle ODC \therefore \angle ECD = \frac{1}{2} \angle ACD = 90^\circ - \frac{1}{2} \angle ODC$$

$$\therefore \angle F = \angle ECD - \angle CDF = 45^\circ \quad \text{----- } 6'$$

(3). $\therefore CE$ 平分 $\angle ACD$, DF 平分 $\angle ODC$

$$\therefore \angle ACE = \angle ECD = \frac{1}{2} \angle ACD, \angle CDF = \angle ODF = \frac{1}{2} \angle ODC$$

$$\therefore \angle AOB = n^\circ$$

$$\therefore \angle ODC = 180^\circ - \angle AOB - \angle OCD = 180^\circ - n^\circ - \angle OCD$$

$$\therefore \angle CDF = \frac{1}{2} \angle ODC = 90^\circ - \frac{n}{2} - \frac{1}{2} \angle OCD$$

$$\therefore \angle ACD = 180^\circ - \angle ODC$$

$$\therefore \angle ECD = \frac{1}{2} \angle ACD = 90^\circ - \frac{1}{2} \angle ODC$$

$$\therefore \angle F = \angle ECD - \angle CDF = \frac{n}{2} \quad \text{----- } 10'$$

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