

参考答案

一、选择题

1-5 题 C D B D B 6-10 题 C D A A B

二、填空题

11、 四

12、 4

13、 36°

14、 3

15、 12

16、 102°

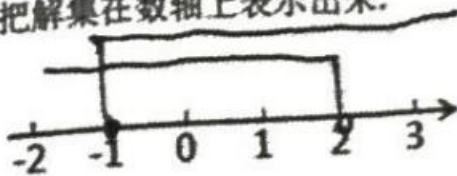
三、解答题

17、 4

18、 $x=2, y=1$

19、 $-1 \leq x < 2$

把解集在数轴上表示出来.



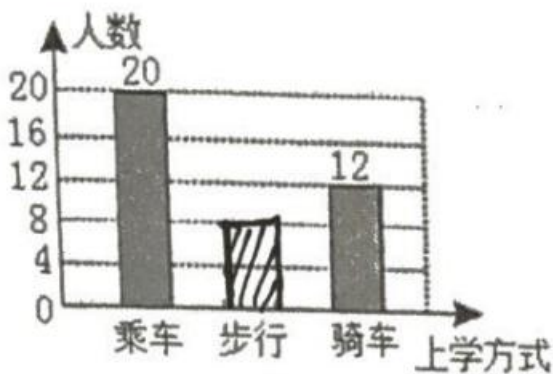
20、

(1) 证明: $\because AC \parallel EF \therefore \angle 3 = \angle 2$
 $\therefore \angle 1 + \angle 2 = 180^\circ \therefore AF \parallel CD$
 $\text{又} \because \angle 1 + \angle 3 = 180^\circ$ (2) $\angle BCD = 90^\circ - \angle 3$
 $= 90^\circ - \angle 2 = 50^\circ$



21、

(1)



(2) 108°

(3) 300 人

22、

(3) 求 $\triangle ABC$ 的面积.

(1). $C'(5, -2)$. 如图.

(2). $P'(a+4, b-3)$.

$$\begin{aligned} (3). S_{\triangle ABC} &= 5 \times 5 - \frac{1}{2}(2 \times 3) \\ &\quad - \frac{1}{2}(5 \times 2) - \frac{1}{2}(3 \times 5) \\ &= 25 - 3 - 5 - \frac{15}{2} \\ &= \frac{19}{2} \end{aligned}$$

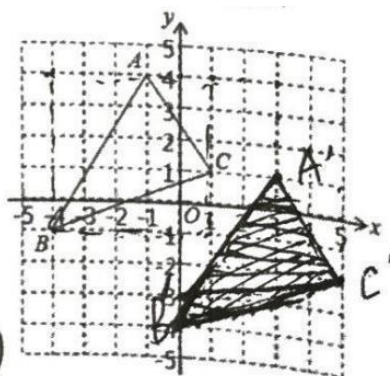


图 10

23、

(1) A 价格 150 元, B 价格 100 元

(2) 4 个

24、

(1) $A(-8, 0), B(-4, -4)$

(2) $\angle OPQ + \angle QBC = \angle PQB$

(3) $(-8/3, 0)$

25

图 12-1

25. (1) $\because AM \parallel CN$
 $\therefore \angle C = \angle BOA$
 $\because AB \perp BC$
 $\therefore \angle B = 90^\circ$
 $\therefore \angle A + \angle BOA = 90^\circ$
 $\therefore \angle A + \angle C = 90^\circ$

(2) 过 B 作 $BH \parallel DM$
 $\because BD \perp MA$
 $\therefore \angle ABO + \angle 2 = 90^\circ$
 $\because AB \perp BC$
 $\therefore \angle 1 + \angle 2 = 90^\circ$
 $\therefore \angle 1 = \angle B$
 $\because BH \parallel DM \parallel NC$
 $\therefore \angle C = \angle 1 \therefore \angle ABO = \angle C$

(3) 设 $\angle DBE = \angle ABE = y$, 解得:
 $\angle DBF = \angle CBF = x$, $y = 15^\circ$
 $\therefore \angle ABF = (90^\circ - x)$
 $\therefore 90^\circ - x + 2y = x$
 $\text{即 } x = y + 45^\circ$
 $\because \angle AFC = \angle BCF$
 $\angle BFC = 3\angle DBE = 3y$
 $\text{在 } \triangle BFC \text{ 中}$
 $3y + x + (3y + 90^\circ - x) = 180^\circ$
 $\therefore x = 60^\circ$
 $\therefore \angle EBC = 2x - y = 105^\circ$