



$$\begin{aligned}
 23. (1) 10^{3m+2n} &= 10^{3m} \cdot 10^{2n} \\
 &= (10^m)^3 \cdot (10^n)^2 \\
 &= 2^3 \times 3^2 \\
 &= 8 \times 9 \\
 &= 72
 \end{aligned}$$

$$(2) \because (x+y)^2 = x^2 + 2xy + y^2 = 16, \quad \textcircled{1}$$

$$(x-y)^2 = x^2 - 2xy + y^2 = 4 \quad \textcircled{2}$$

$$\therefore \textcircled{1} - \textcircled{2} \text{ 得, } 4xy = 12,$$

$$xy = 3.$$

24. 可证  $\triangle ABD \cong \triangle ACD$  (SAS)

$$\therefore BD = CD$$

25. (1) 图略 (有一条边对应相等的正方形与长方形)

(2)

证明: 连接  $AC$ 、 $A_1C_1$ .

$$\because AB = A_1B_1, \angle B = \angle B_1, BC = B_1C_1$$

$$\therefore \triangle ABC \cong \triangle A_1B_1C_1,$$

$$\therefore AC = A_1C_1, \angle BAC = \angle B_1A_1C_1, \angle BCA = \angle B_1C_1A_1.$$

$$\text{又} \because CD = C_1D_1, DA = D_1A_1,$$

$$\therefore \triangle ACD \cong \triangle A_1C_1D_1.$$

$$\therefore \angle D = \angle D_1, \angle DAC = \angle D_1A_1C_1, \angle DCA = \angle D_1C_1A_1,$$

$$\therefore \angle BAD = \angle B_1A_1D_1, \angle BCD = \angle B_1C_1D_1,$$

$$\therefore \text{四边形 } ABCD \cong \text{四边形 } A_1B_1C_1D_1;$$

(3) ①②③;

有一组邻边和三个角对应相等的两个四边形全等.

26. (1)  $\angle DEC = 36^\circ$ ,  $\angle AEB = 126^\circ$

(2) 法 1

在  $AC$  上截取  $AF = AB$ , 连接  $FE$

可证  $\triangle AEF \cong \triangle AEB$  (SAS),

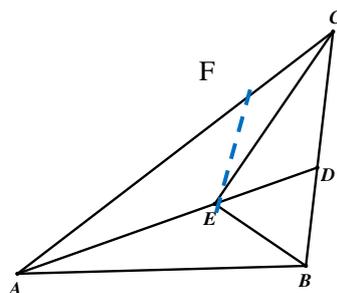
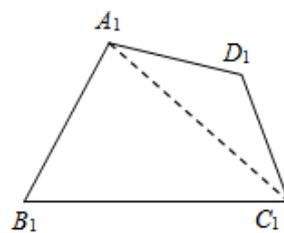
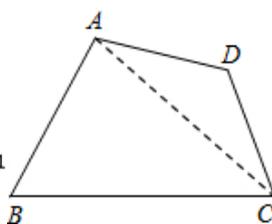
$$\therefore EF = EB, \angle AFE = \angle ABE$$

$$\therefore \angle FEC = \angle FCE,$$

$$\therefore EF = FC$$

$$\therefore AC = AF + FC = AB + BE$$

其它解法略



$$(3) 3\angle ABE + \angle BAC = 180^\circ$$

附加

1. (1)  $a^5 + 5a^4b + 10a^3b^2 + 10a^2b^3 + 5ab^4 + b^5$

(2) 66

2. (1)  $E(-1,5)$

(2)  $a = -2$

(3)  $-1 \leq b \leq 1.5$

(4)  $t < -2$  或  $t > 1$

北京中考在线  
微信号: BJ\_zkao



北京中考在线  
微信号: BJ\_zkao

北京中考在线  
微信号: BJ\_zkao

北京中考在线  
微信号: BJ\_zkao