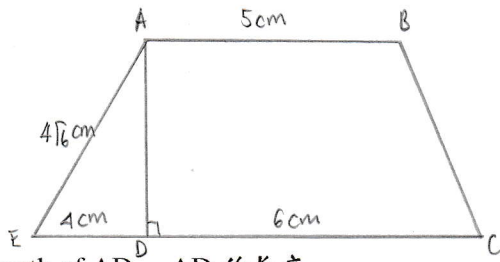Triangle and Quadrilateral exercise 2

1. From diagram, ABCD is a trapezium, find

如图，ABCD 是一个梯形，求
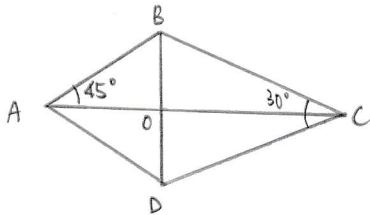

i. length of AD，AD 的长度

ii. area of trapezium，求梯形面积

iii. perimeter of the whole diagram，求图的周长

2. From diagram, ABCD is a kite, <BAO=45°, <BCD=30°, find

如图，ABCD 是一风筝形，<BAO=45°, <BCD=30°,求

i. <OBC，角<OBC

ii. Given that OB=3cm, OC=7cm, find the area of kite ABCD

若 OB=3cm, OC=7cm, 求风筝形 ABCD 的面积

1
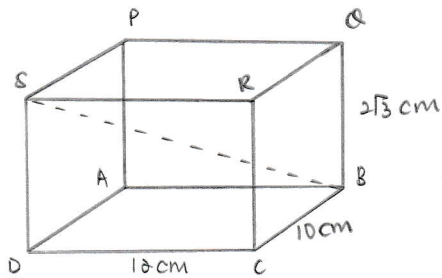
3. Diagram shows a regular pentagon, find the value x

图中显示正五边形，求 x 值
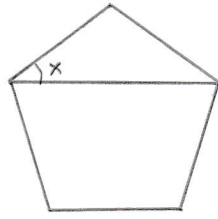
4. Diagram shows a rectangle, DC= 12cm, CB= 10cm, BQ =√12cm, find the length of BS

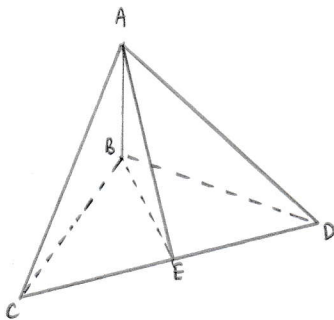图所显示是一个长方体。DC= 12cm, CB= 10cm, BQ =√12cm, 求 BS 的长度

5. From the diagram , the area of rectangle BCDE is $36cm^2$, find the length of AD
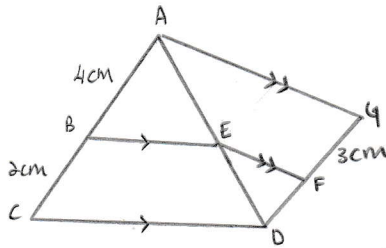
如图所示，长方形 BCDE 的面积是 $36cm^2$, 求 AD 的长度
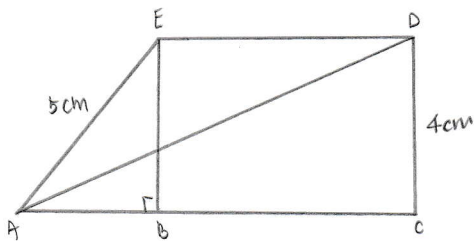
6. From the diagram, point E is the midpoint of CD, <ABE= <AED=<AEC=90°, BC=BD=10cm, CD=12cm, AB=2BE, find the length of BE and AE.

在图中，已知 E 点在 CD 线的中点，<ABE= <AED=<AEC=90°, BC=BD=10cm, CD=12cm, AB=2BE, 求 BE 和 AE 的长度。

2

7.From the diagram 如图，

i. Prove Δ ABE and ΔACD is congruent triangle

证明Δ ABE 和ΔACD是相似三角形

ii. Find the length of DF

求 DF 的长度

8.From the diagram, area of ACD is $72cm^2$, find

如图，ACD 的面积为 $72cm^2$，求
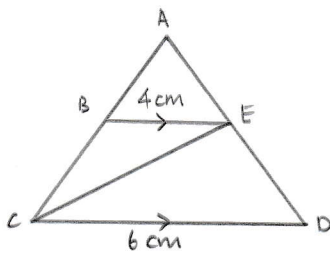
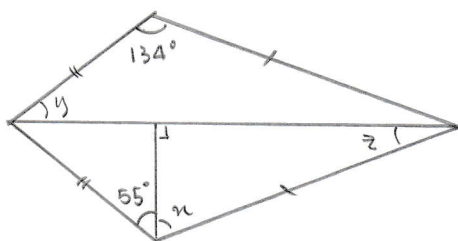i. Area of triangle ABE, ΔABE 的面积

ii. Area of triangle BEC, ΔBEC 的面积

3

9. From the diagram, PQRS is a parallelogram, AB=$\frac{1}{4}$PQ, area of triangle ABS is $144cm^2$, find area of PQRS

如图所示，PQRS 是平行四边形，AB=$\frac{1}{4}$PQ, 如果△ABS 面积为 $144cm^2$,求 PQRS 的面积
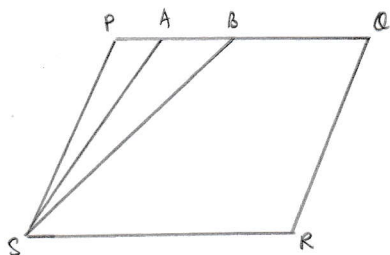
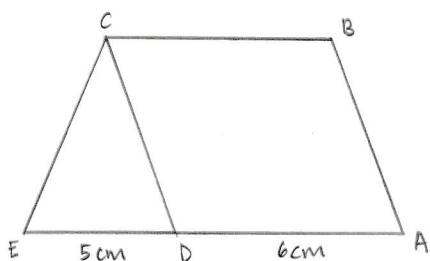10. Diagram shows a kite, calculate the value of x, y and z

图中显示一个风筝形，求 x, y 和 z 的值

11. A rhombus of perimeter 40cm and has a diagonal of 16cm, find its area

一菱形的周长是 40cm,其中对角线长 16cm,求面积
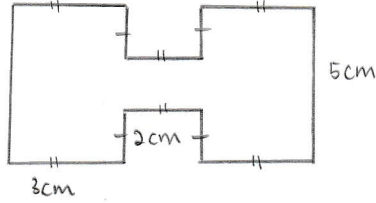
12. In diagram, ABCD is a parallelogram with area $24cm^2$ and ADE is a straight line. Calculate area of trapezium ABCE.

如图，ABCD 是个平行四边形，其面积 $24cm^2$ 和 ADE 是一条直线，求梯形 ABCE 的面积

Triangle and Quadrilateral exercise 2
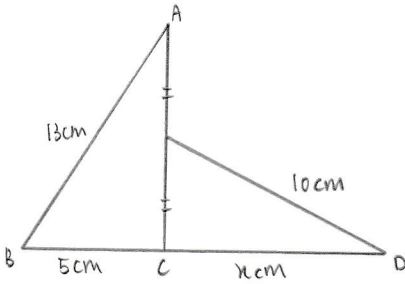
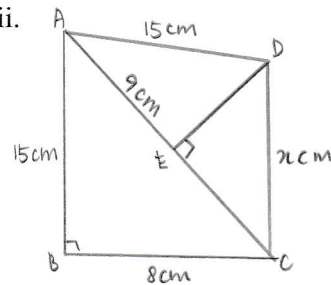13. Base on the diagram, find 如图，求

i. perimeter of the diagram 图的周长

ii. area of the diagram 图的面积

14. Find the value of x, 求 x 值
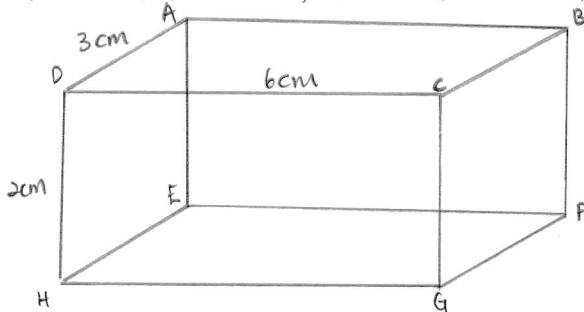
i.

ii.

15. Diagram shows a cuboid where AB=6cm, AD=3cm and DH=2cm, find the length of EG an AG.

图中所示一正方体 AB=6cm, AD=3cm 和 DH=2cm, 求 EG 和 AG 的长度

16. In the diagram, ΔBAE is a right-angled triangle, BC//AD, given the area of ΔECD is $195cm^2$, find the length of AE.

如图所示，ΔBAE 是一直角三角形，BC//AD，已知 ΔECD 的面积是 $195cm^2$，求 AE 的长度

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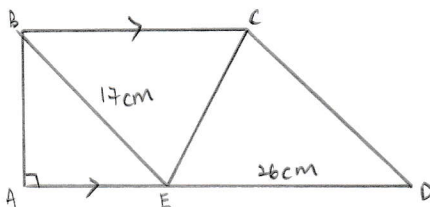
17. In the diagram, AB//CD, AE=4cm, BE=5cm,ED=6cm. Find the length of CE.

如图所示，AB//CD, AE=4cm, BE=5cm,ED=6cm.求 CE 的长度
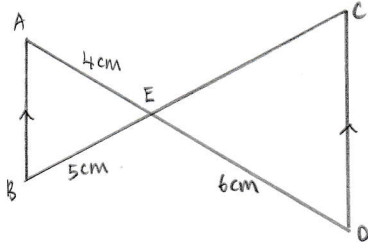
18. In the diagram, ΔAPQ is similar to ΔACB. Find the length of PQ and PB.

如图所示，ΔAPQ 相似于 ΔACB，求 PQ 和 PB 的长度
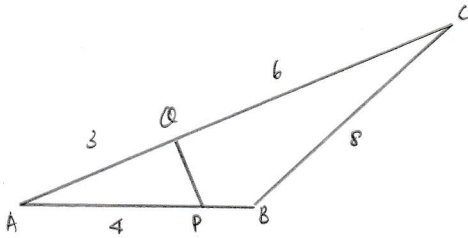
19. In diagram, DE//BC, AD:DB=2:1,

如图所示，DE//BC, AD:DB=2:1,

i. Prove ΔADE   ΔABC, 试证明 ΔADE   ΔABC
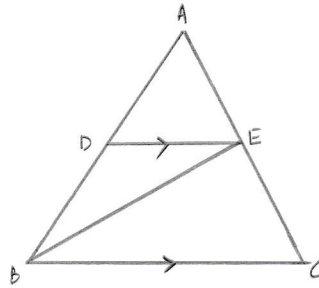
ii. Find DE:BC ， 求 DE:BC

iii. If area of ΔABC is $36cm^2$,find area of ΔABE， 若 ΔABC 的面积是 $36cm^2$， 求 ΔABE 的面积