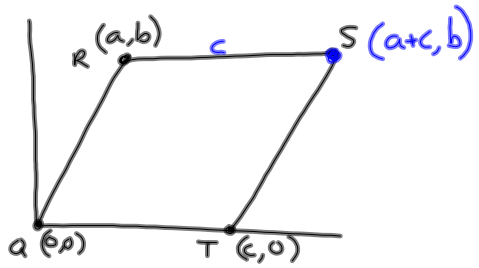
12-5-13
5th Geo

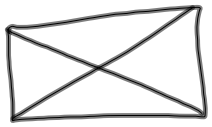
6-2 #9



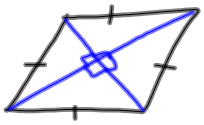
Where is S?

What is special about a rectangle?

① Diagonals are equal in length



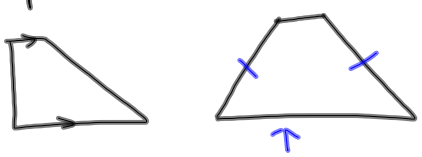
Rhombus



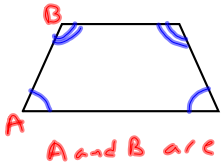
① Diagonals cross at 90°

② Diagonals bisect the corner angles

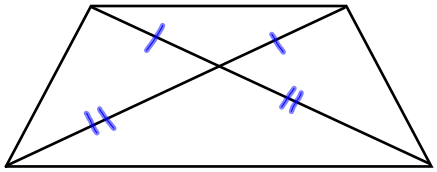
Trapezoid - A quadrilateral that has only one pair of parallel sides.



Isosceles Trapezoid
2 non parallel sides are equal in length

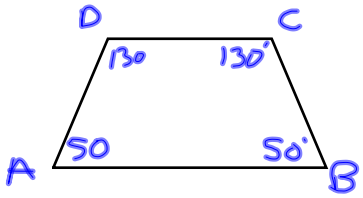


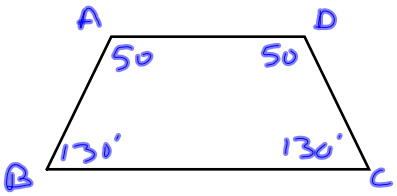
A and B are supplementary ∠s.

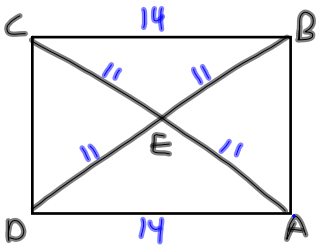


Do the diagonals bisect each other? No, but

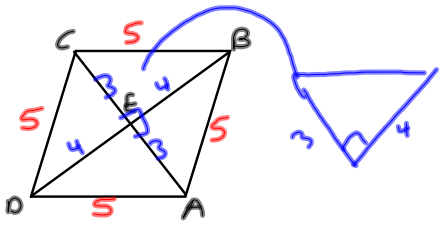
In Isosceles trapezoid ABCD, $\angle A = 50°$. What is $\angle C$?



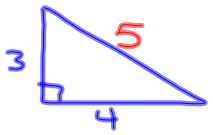




ABCD is a rectangle. If AC = 22 and BC = 14, what is DE? 11



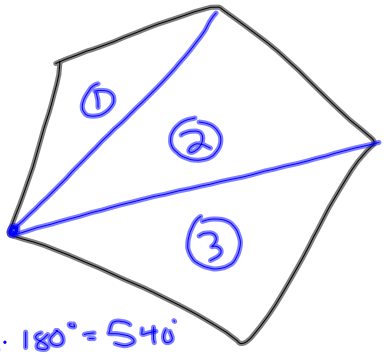
ABCD is a rhombus. If AC = 6 and BD = 8, what is the perimeter of ABCD?



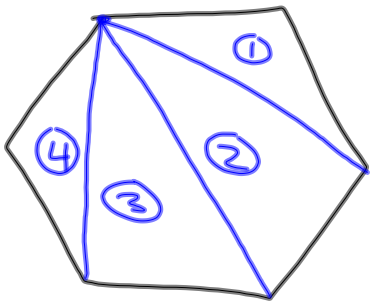
$3^2+4^2=c^2$

$c=5$

Perimeter = 5+5+5+5 = 20



3 · 180° = 540°



4 x 180° = 720°

FORMULA = ?

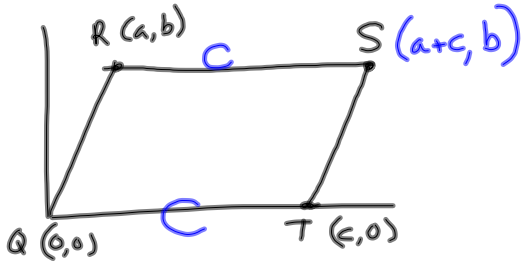
$(n-2)\cdot 180^\circ$

12-5-13

6th Geo

6-2

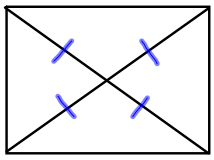
⑨



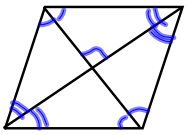
What is S?

What is special about a rectangle?

① Diagonals are equal.



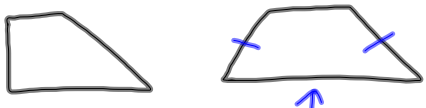
What is special about a rhombus?



① Diagonals are ⊥

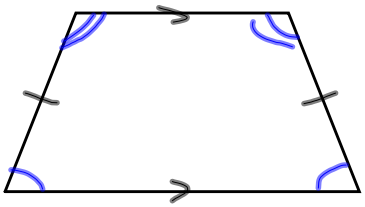
② Diagonals bisect the angles

Trapezoid - A quadrilateral that has only one set of parallel sides.

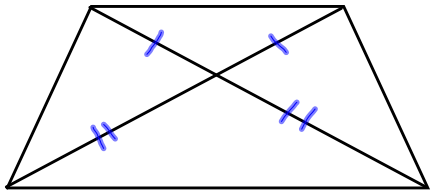


Isosceles Trapezoid - trapezoid with opposite sides = in length

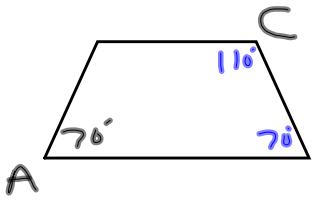
Isosceles Trapezoid

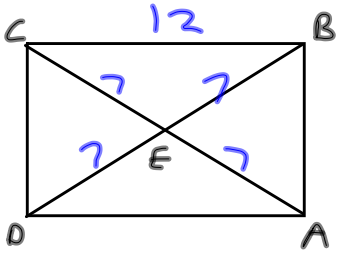


Base angles are =.

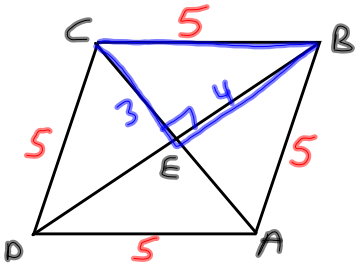


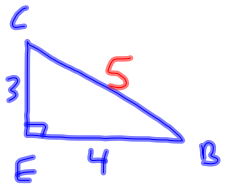
In Isosceles Trapezoid ABCD, $\angle A = 70°$. What is $\angle C$? 110°





In rectangle ABCD, AC = 14 cm and BC = 12 cm. What is DE? 7

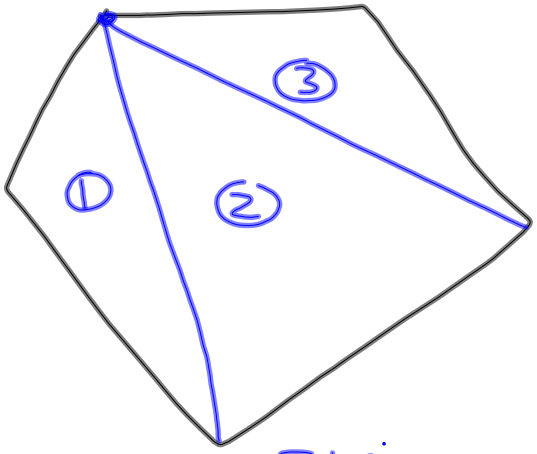




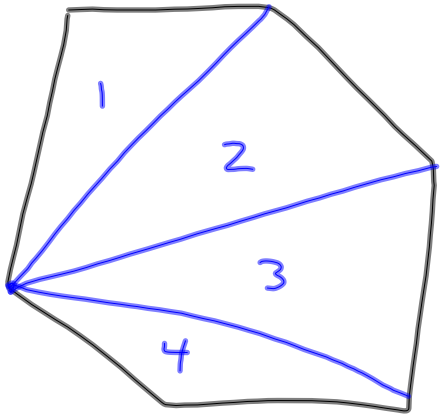
$3^2 + 4^2 = c^2$

In rhombus ABCD, AC = 6 cm and DB = 8 cm. What is the perimeter of the rhombus?

20 cm



$3 \cdot 180 = 540^\circ$



$4 \cdot 180 = 720^\circ$

Sum of all the angles is

$(n-2) \cdot 180^\circ$

↑ how many △ there will be.