

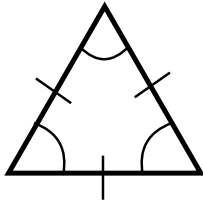
# G1f Drawing diagrams from a written description ©BossMaths



## Alpha Exercise

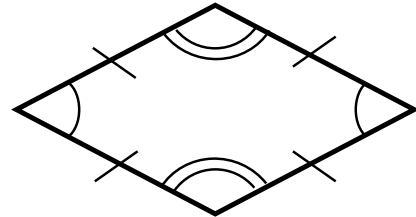
Write down as many facts as you can deduce from each of these sketches.

a)



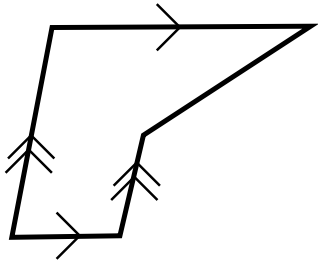
- 3 equal angles
- 3 edges of equal length
- Equilateral triangle

b)



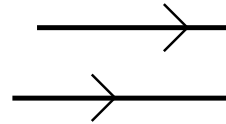
- Two pairs of equal angles
- 4 edges of equal length
- Rhombus

c)



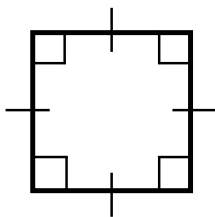
- Two separate pairs of parallel edges
- Pentagon

d)



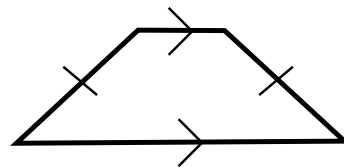
- Parallel

e)



- 4 right angles
- 4 edges of equal length
- Square

f)



- One pair of parallel edges
- A different pair of edges of equal length
- Isosceles trapezium

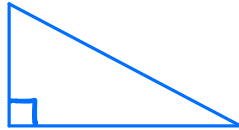
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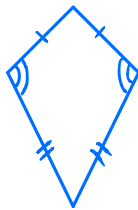
## Beta Exercise

**Sketch** the following shapes. A sketch need not be accurately measured, but it needs to be **labelled geometrically**.

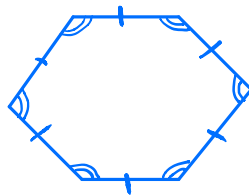
- (a) A right-angled triangle.



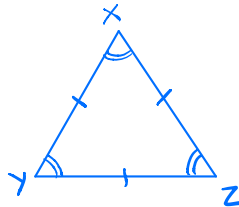
- (b) A kite.



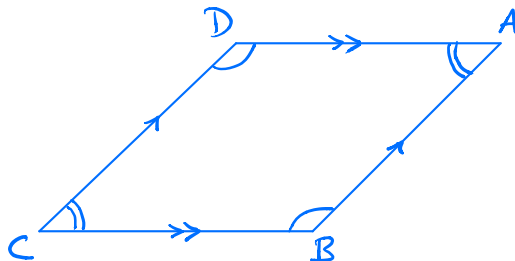
- (c) A regular hexagon.



- (d) A triangle XYZ where the lengths of XY, YZ and XZ are equal.



- (e) A parallelogram ABCD where  $\angle ABC$  and  $\angle ADC$  are obtuse.



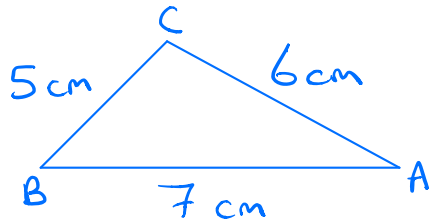
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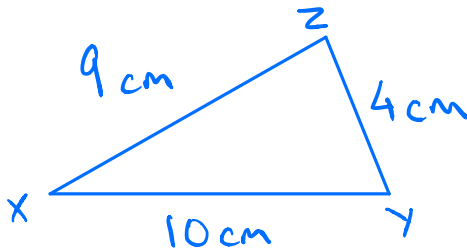
## Gamma Exercise

**Sketch** the following triangles. A sketch need not be accurately measured, but it needs to be **labelled geometrically**.

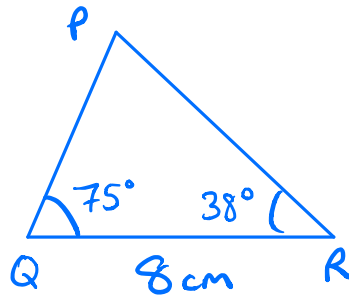
- (a)  $\triangle ABC$ , where AB is 7 cm, BC is 5 cm and AC is 6 cm.



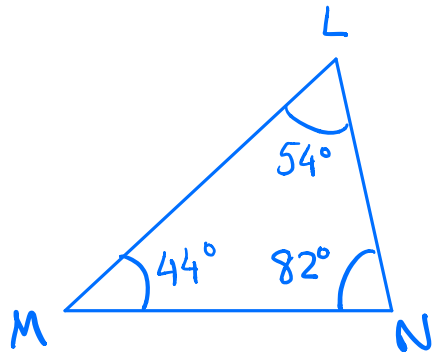
- (b)  $\triangle XYZ$ , where XY is 10 cm, XZ is 9 cm and YZ is 4 cm.



- (c)  $\triangle PQR$ , where QR is 8 cm,  $\angle PQR$  is  $75^\circ$  and  $\angle PRQ$  is  $38^\circ$ .



- (d)  $\triangle LMN$ , where  $\angle LMN$  is  $44^\circ$ ,  $\angle MLN$  is  $54^\circ$  and  $\angle LNM$  is  $82^\circ$ .



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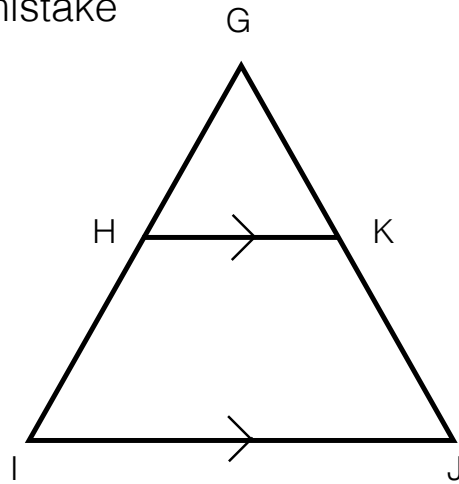
Explain the mistake

Denny says the following:

“HK and IJ are the same.”

Can you give a better description of the relationship between HK and IJ?

HK and IJ are  
parallel.



### Exam-style question

Sketch a pentagon ABCDE with the following properties:

- AB and AE are the same length as each other
- BC and DE are the same length as each other and are longer than AB
- $\angle BCD$  is  $90^\circ$
- $\angle CDE$  is not  $90^\circ$

Remember to label your sketch.

