

Name:

Exam Style Questions

Parallel Lines

Perpendicular Lines



Corbettmaths

Equipment needed: Ruler, pencil & pen

Guidance

1. Read each question carefully before you begin answering it.
2. Check your answers seem right.
3. Always show your workings

Video Tutorial

www.corbettmaths.com/contents

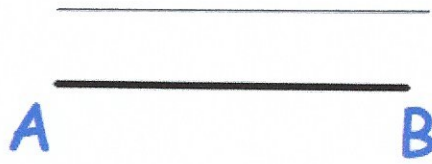
Videos 231 & 232



Answers and Video Solutions

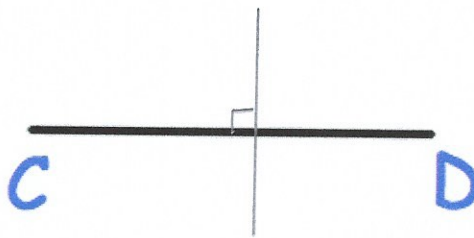


1. (a) Draw a line parallel to the line AB.



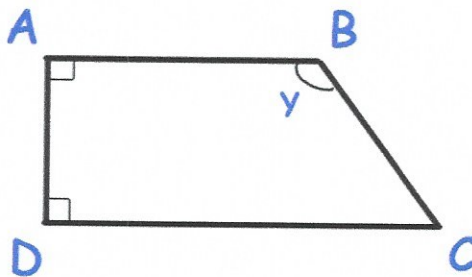
- (b) Draw a line perpendicular to the line CD.

(1)



(1)

2. ABCD is a trapezium.



Fill in the spaces from the list of words below.

obtuse perpendicular acute parallel reflex

- (a) AB is *perpendicular* to AD.

(1)

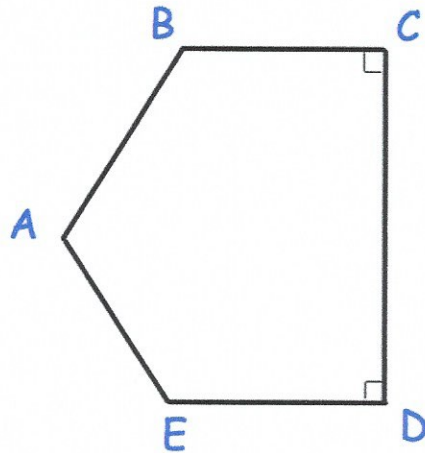
- (b) DC is *parallel* to AB.

(1)

- (c) Angle y is an *obtuse* angle.

(1)

3.



(a) What is the mathematical name given to ABCDE?

pentagon
(1)

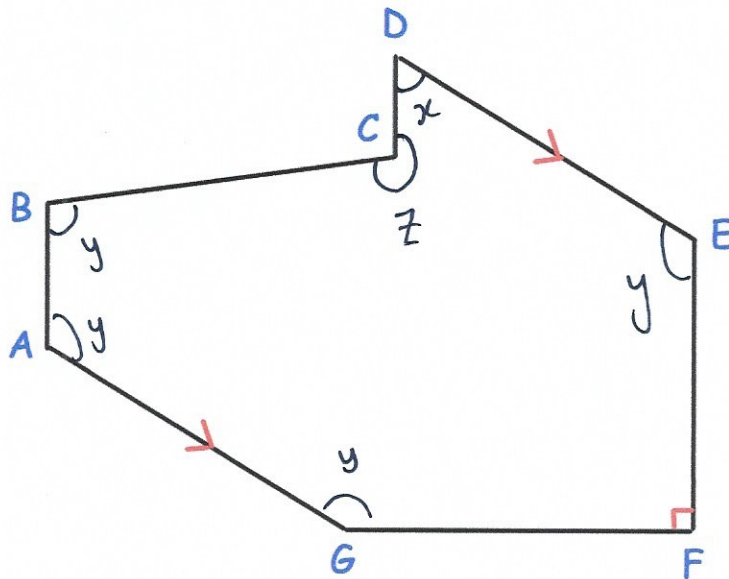
(b) Which line is parallel to ED?

BC
(1)

(c) Which line is perpendicular to ED?

CD
(1)

4. The diagram below shows a shape ABCDEFG.



(a) What is the mathematical name given to ABCDEFG?

.....
Heptagon
 (1)

(b) Mark, with an x, an acute angle.

(1)

(c) Mark, with an y, an obtuse angle.

any of the ones shown above.

(1)

(d) Mark, with an z, a reflex angle.

(1)

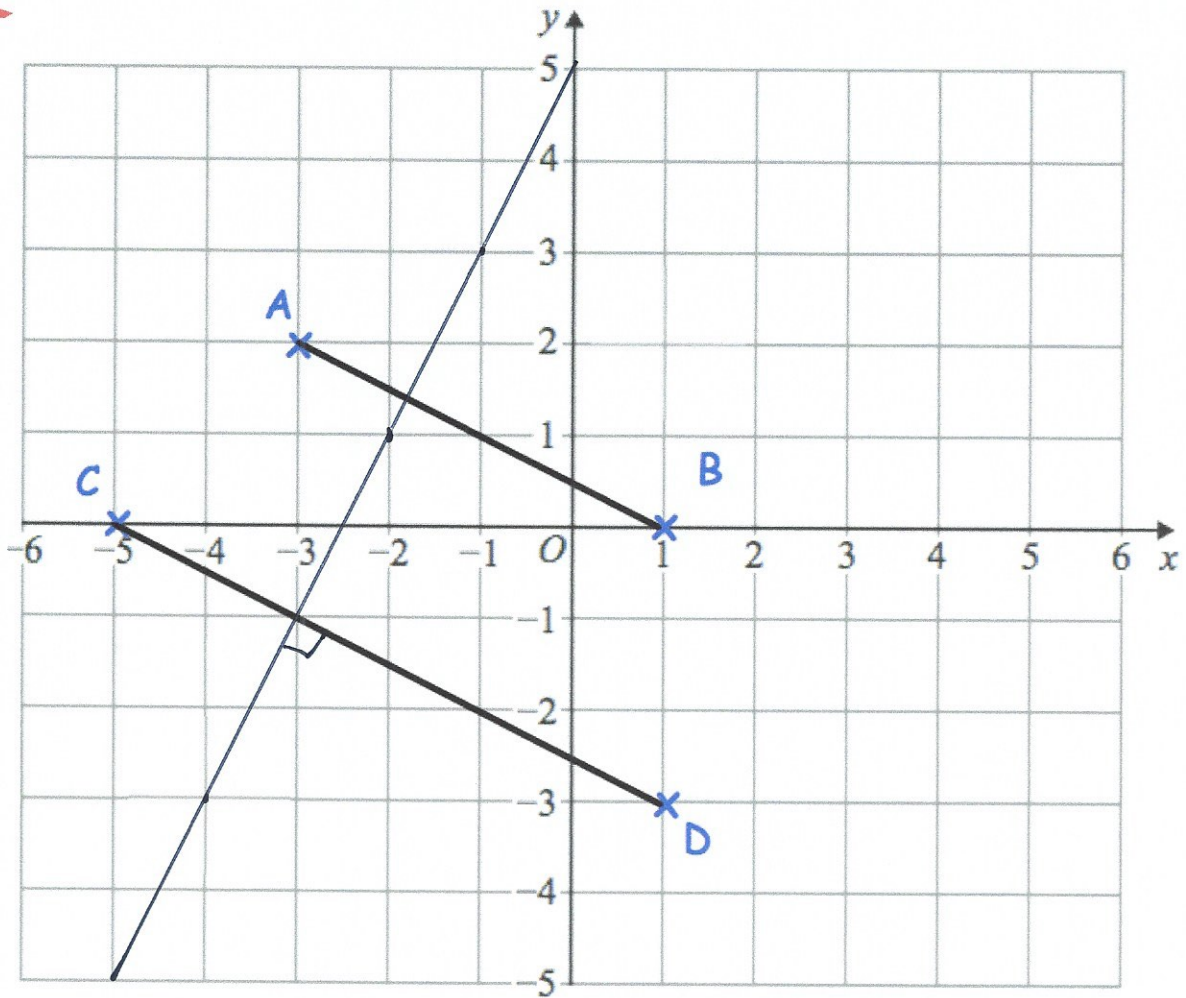
(e) Which line is parallel to AG?

.....
DE
 (1)

(f) Which line is perpendicular to EF?

.....
FG
 (1)

5. Lines AB and CD are shown on the grid below.



(a) Which word below describes the lines AB and CD?

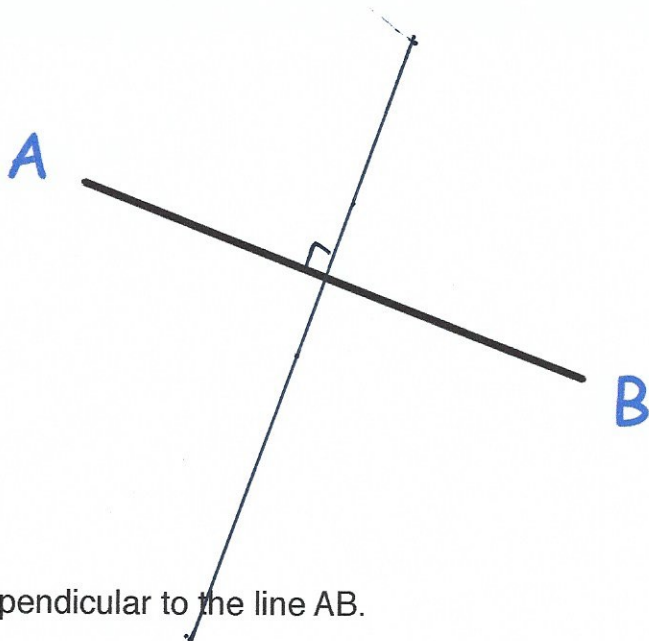
perpendicular regular reciprocal parallel

parallel.....
(1)

(b) Draw a line that is perpendicular to the line CD.

(1)

6. 



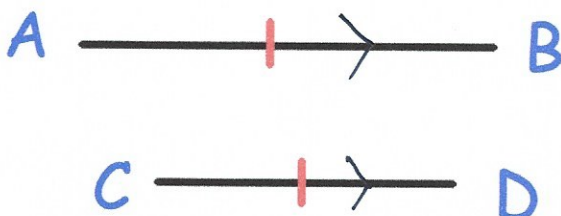
Draw a line perpendicular to the line AB.

(1)

7. 

Lee has been asked to add symbols to the lines AB and CD to show that they are parallel.

His answer is shown below.



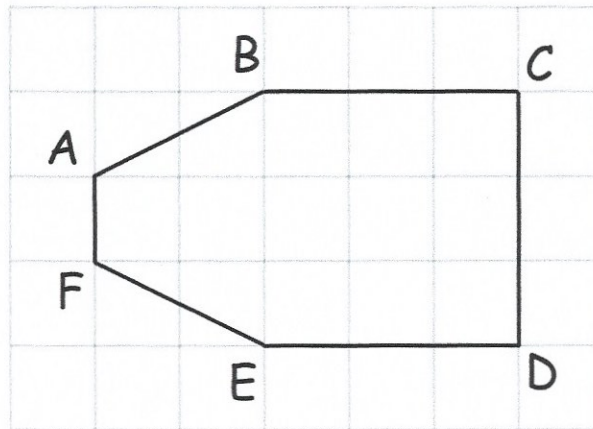
Explain his mistake.

Lee should have used arrows.

The lines mean that AB & CD are the same length - they are not.

(1)

8. Shown below is shape ABCDEF



(a) What is the mathematical name given to ABCDEF?

Hexagon
(1)

(b) Write down the side of the polygon that is parallel to AF

CD
(1)

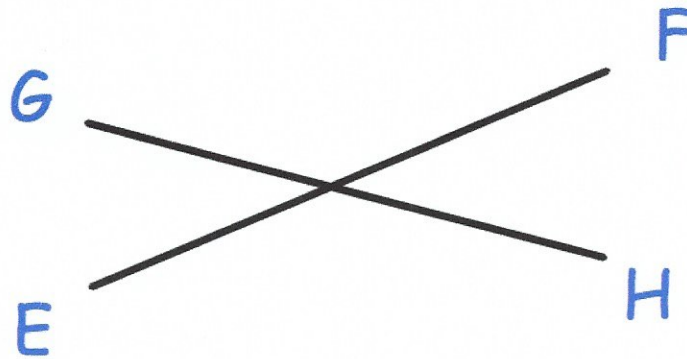
(c) Write down a side of the polygon that is perpendicular to CD

BC or DE
(1)

9. David has been asked to draw a line perpendicular to the line EF.



His answer is shown below.



Is he correct?

Explain your answer.

No, GH should be at a 90° degree angle to EF.

.....

.....

(1)