Name:

Exam Style Questions

Angles: Parallel Lines

Corbettmaths

Ensure you have: Pencil, pen, ruler, protractor, pair of compasses and eraser

You may use tracing paper if needed

Guidance

1. Read each question carefully before you begin answering it.
2. Don't spend too long on one question.
3. Attempt every question.
4. Check your answers seem right.
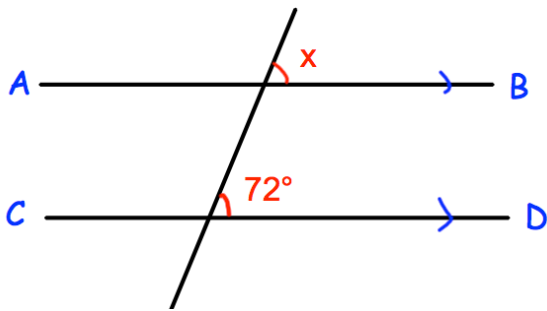5. Always show your workings

Revision for this topic

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Video 25

1.   In the diagram, AB is parallel to CD.

(a)   Work out the size of the angle marked x.

......................°
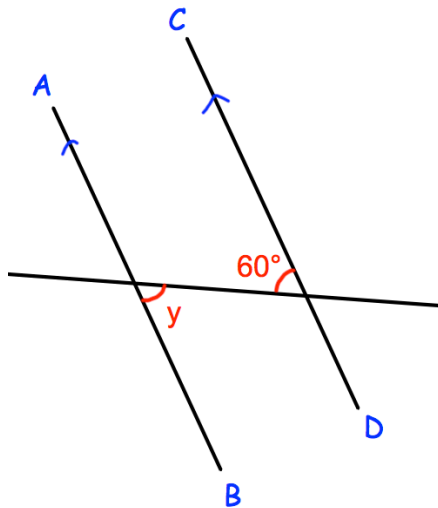
(b)   Give a reason for your answer.

....

....

(2)

2.   AB is parallel to CD.

(a)   Work out the size of the angle marked y.

......................°

(b)   Give a reason for your answer.

....

....

(2)

3.

(a) Work out the size of the angle marked x.

..........................°
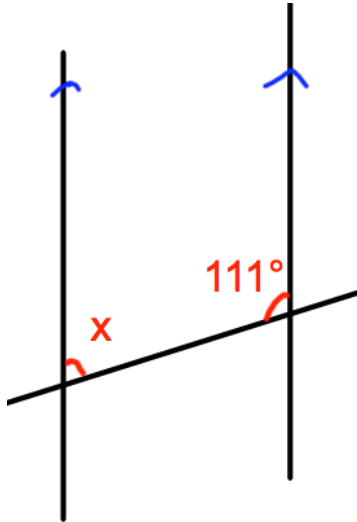
(b) Give a reason for your answer.

....

....

(2)

4.
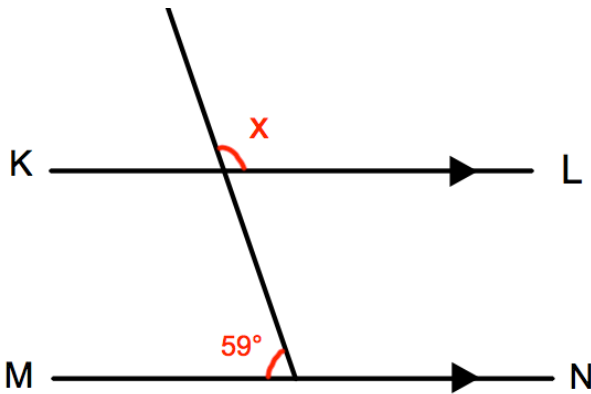
(a) Work out the size of the angle marked x.

..........................°

(b) Give reasons for your answer.

....

....

(3)

5.   In the diagram AB is parallel to CD.

Diagram **not** drawn accurately

(a)   Work out the size of the angle marked x.

...........................°
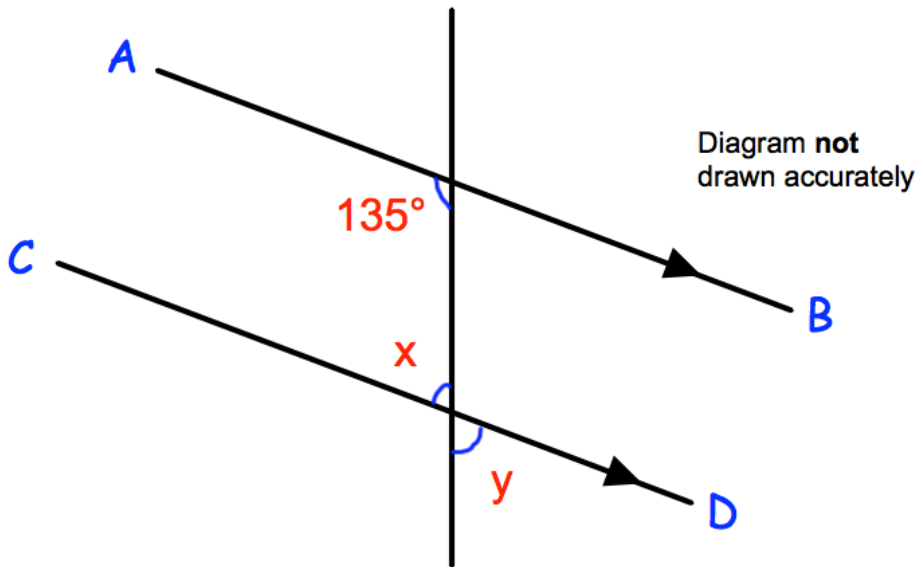
Give a reason for your answer.

....

....

(2)

(b)   Write down the value of y.

...........................°

Give a reason for your answer.

....

....

(2)

6.

AB is parallel to CD.

(a) Work out the size of the angle marked x.

.........................°
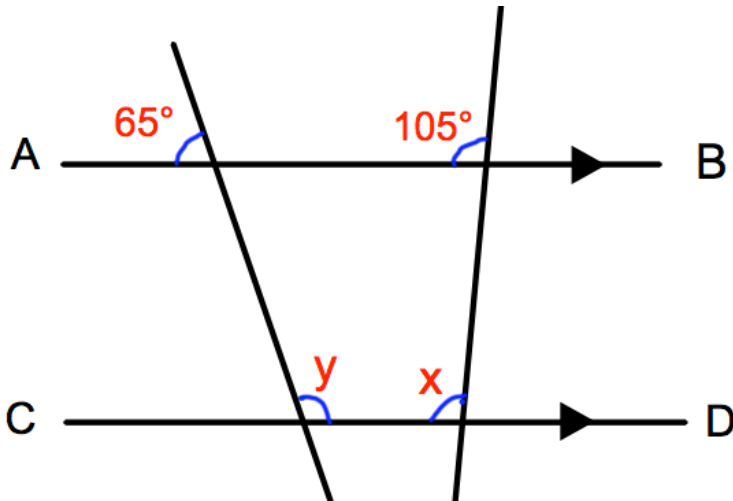
Give a reason for your answer.

....

....

(2)

(b) Work out the size of the angle marked y.

.........................°

(2)

7. On the diagram RS is parallel to TU.
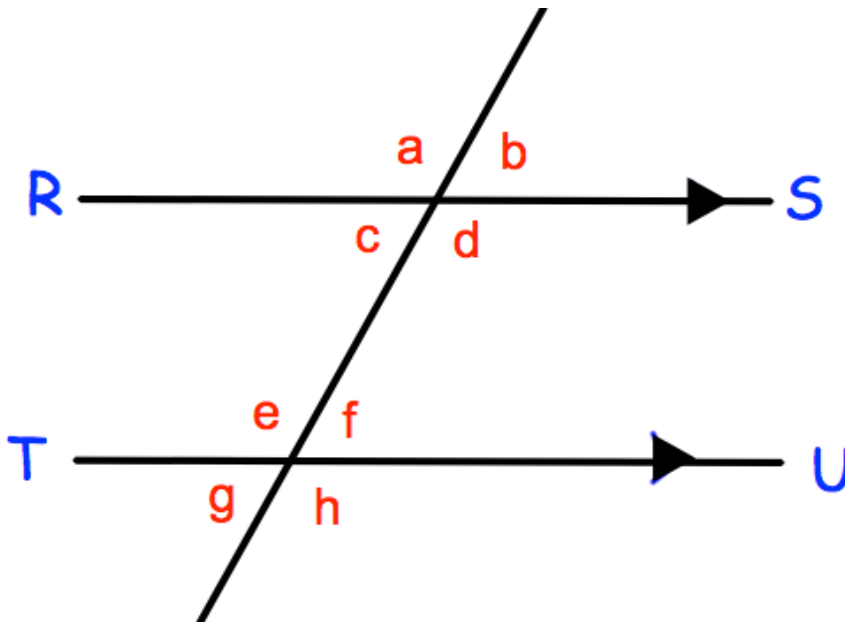
(a) Which angle is vertically opposite to angle *g* ?

....
(1)

(b) Which angle is corresponding to angle *a* ?

....
(1)

(c) Which angle is alternate to angle *c* ?

....
(1)

(d) Which angle is corresponding to angle *h* ?

....
(1)

(e) Which angle is alternate to angle *d* ?

....
(1)

8. AB is parallel to CD.
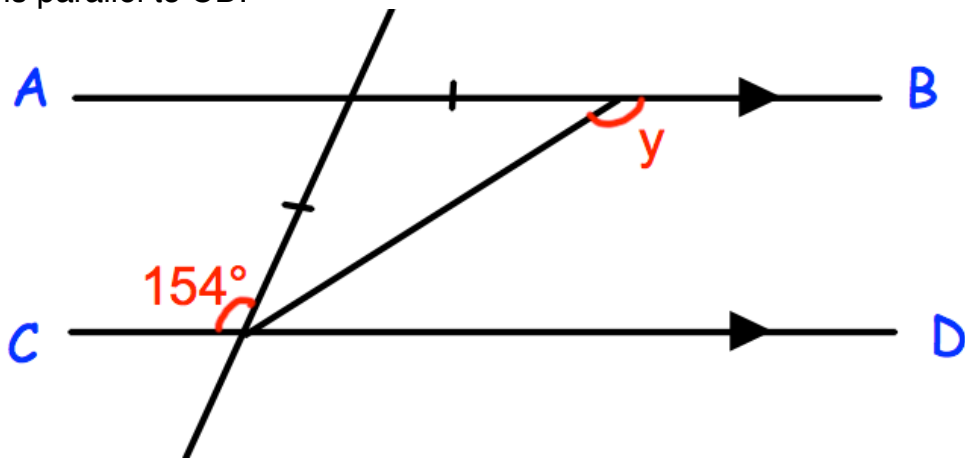
Work out the size of angle y.
Give reasons for your answer.

...........................°

(4)

9.

Diagram **not** drawn accurately
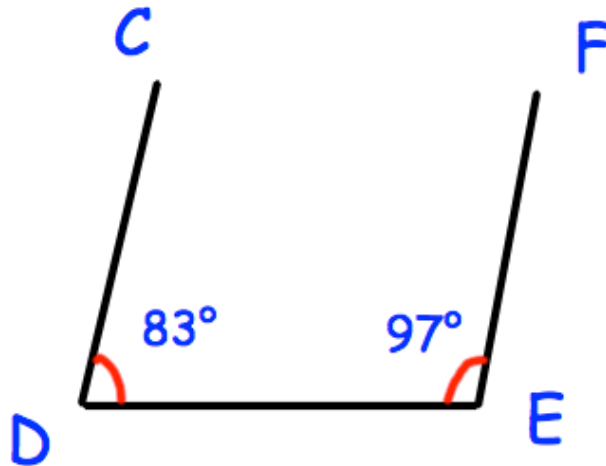
Nigel says "the lines CD and EF are parallel."
Tim says "the lines CD and EF are **not** parallel."

Who is correct?

....
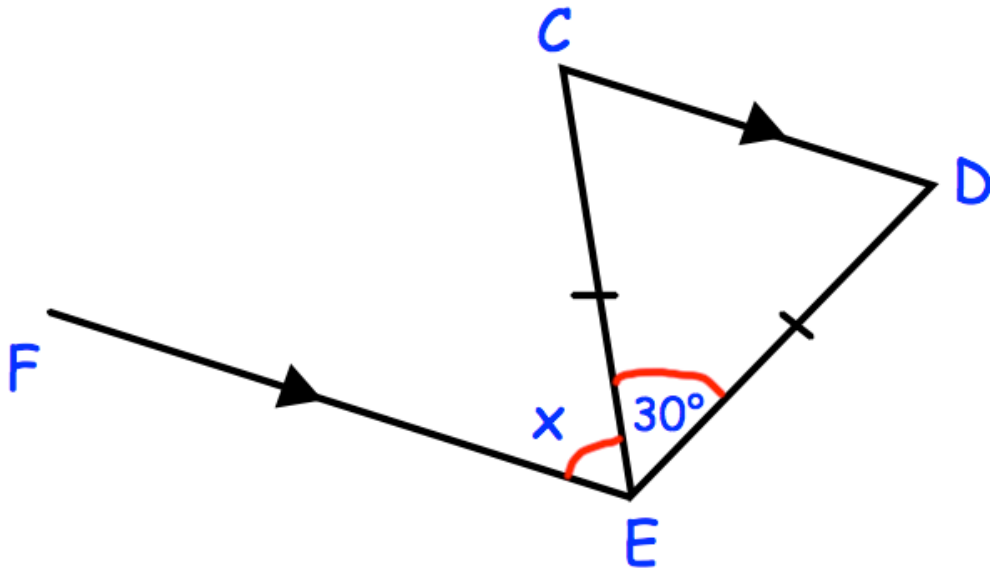
Give a reason for your answer.

....

....

(2)

10.

Triangle CDE is isosceles.
CD is parallel to FE.
Angle CED = 30°

Work out the size of angle x.

.........................°

(3)

11. In the diagram, AB is parallel to CD.

Not drawn accurately
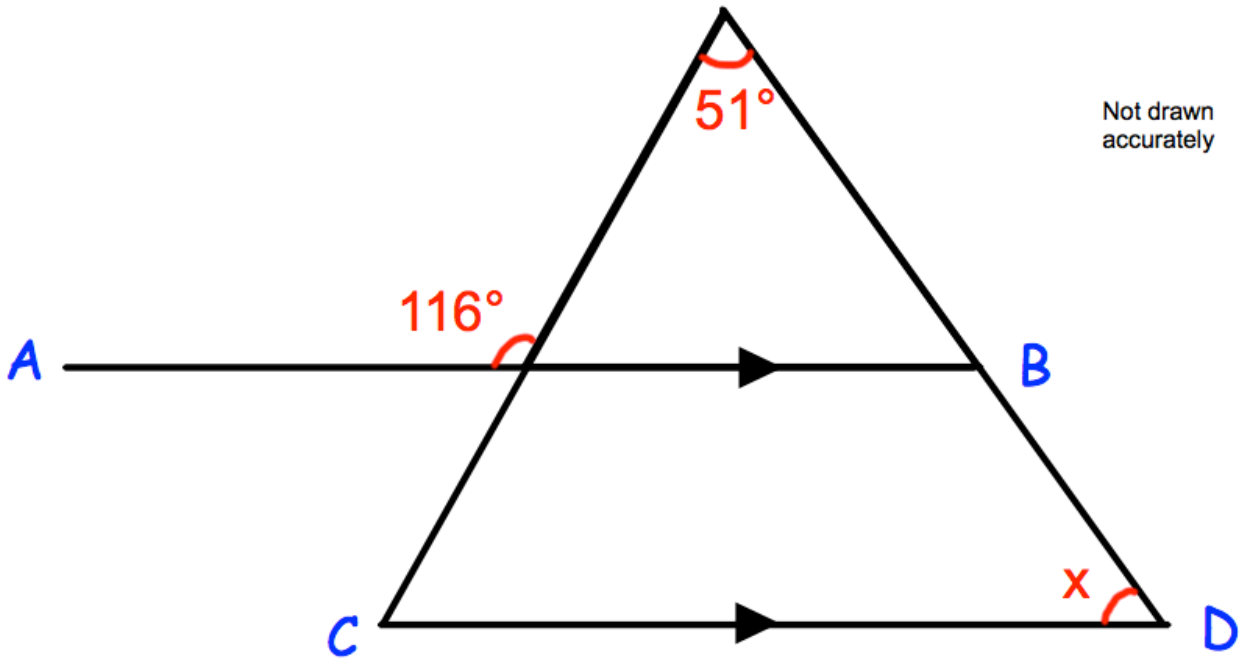
Work out the size of angle x.

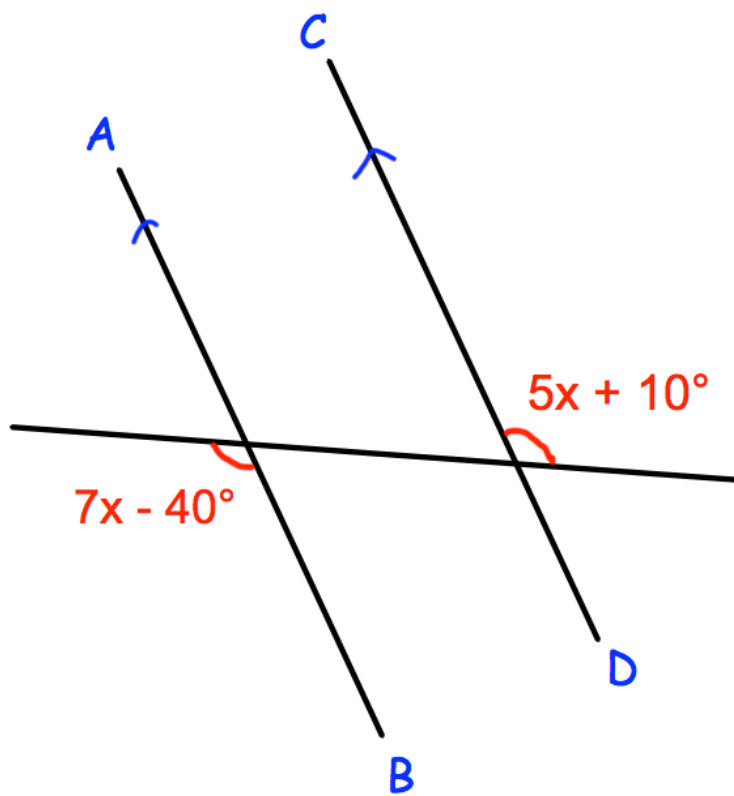You **must** show your workings.

.........................°

(4)

12. CE and FI are parallel lines.
    Angle EDH = 50°
    Angle DGF = 100°
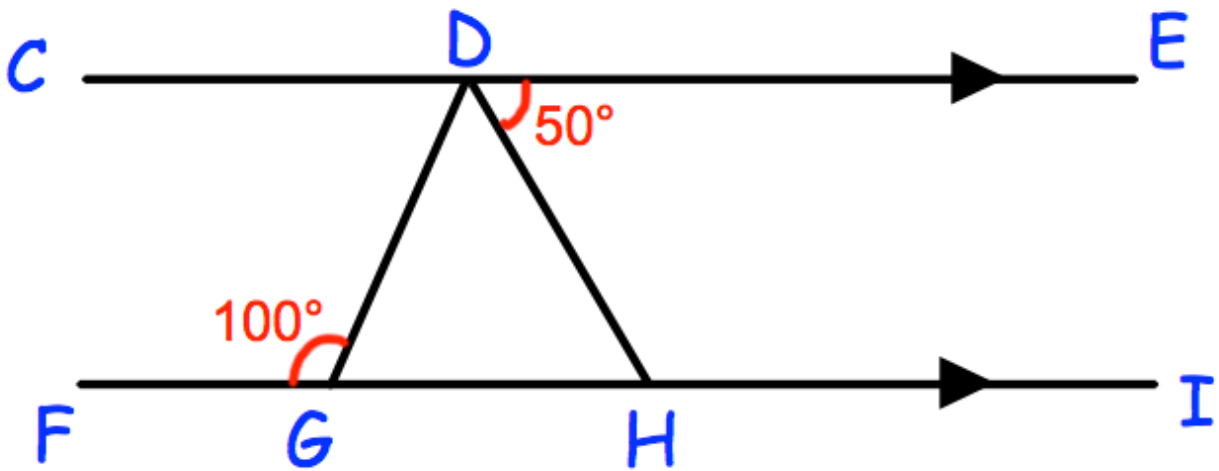
Show, giving reasons, that triangle DGH is isosceles.

(4)

13. AB and CD are parallel lines.

Work out the size of x.

....
(3)