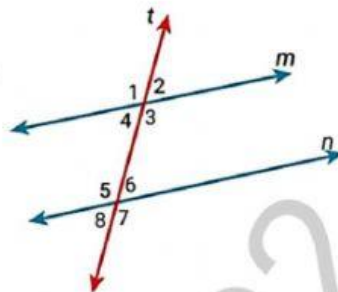


Mr Tarek Ali	Grade 8	0562854282
Term 2	Revision	CH5

In this diagram, lines m and n are parallel.

Fill in the blanks with the name of the angle to make each statement correct.



$\angle 1$ and $\angle$ are vertical angles.

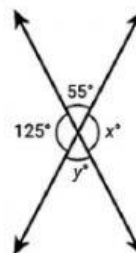
$\angle 1$ and $\angle$ are alternate exterior angles.

$\angle 1$ and $\angle$ are corresponding angles.

Choose the correct answer.

Classify the pair of angles whose measure are x° and 125° .

They are ...



When two lines are crossed by a the pairs of angles on the same sides of those two lines and lying on the same side of the transversal are called

056 285 42 82 الأستاذ / طارق علي

Mr Tarek Ali

Grade 8

0562854282

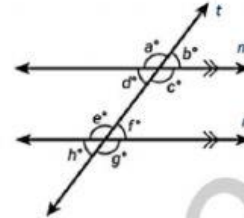
Term 2

Revision

CH5

Two parallel lines, m and n , are cut by a transversal, t .

Which of the following pairs of angles are **alternate exterior angles**?



☐ a The angles whose measures are d° and f° .

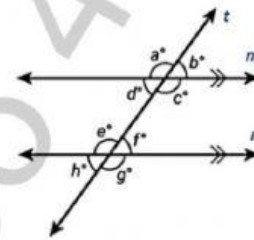
☐ c The angles whose measures are b° and h° .

☐ b The angles whose measures are e° and g° .

☐ d The angles whose measures are d° and h° .

Two parallel lines, m and n , are cut by a transversal, t .

The angles whose measures are e° and c° are ...



☐ a alternate interior angles

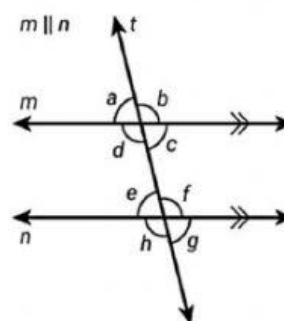
☐ c alternate exterior angles

☐ b corresponding angles

☐ d vertical angles

In the given diagram, two parallel lines, m and n , are cut by a transversal t .

$\angle f$ has equal measure to $\angle b$, because they are



056 285 42 82 الأستاذ / طارق علي

Mr Tarek Ali

Grade 8

0562854282

Term 2

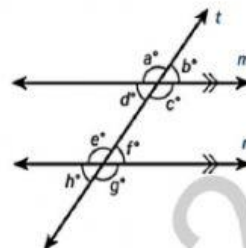
Revision

CH5

Two parallel lines, m and n are cut by a transversal, t .

Classify the angles whose measures are a° and g° .

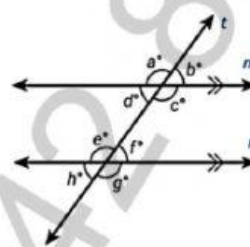
They are ...



Two parallel lines, m and n , are cut by a transversal, t .

Classify the angles whose measures are f° and b° .

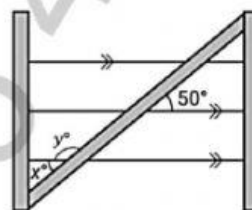
They are ...



This gate is made of parallel metal bars, shown in black.

There is a wooden transversal.

The angle labeled y° has a measure of



In this window pane, the angles shown are Select... angles.

If $a = 73$, then $b =$ Select... .

107

73

163

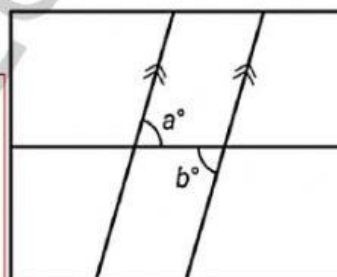
17

alternate interior

vertical

alternate exterior

corresponding



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Mr Tarek Ali

Grade 8

0562854282

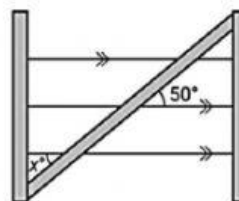
Term 2

Revision

CH5

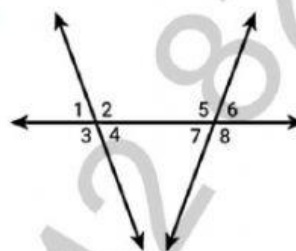
This gate has parallel metal lines as shown in the diagram. One wooden piece of wood crosses the parallel metal lines.

The angle labeled x° has a measure of .



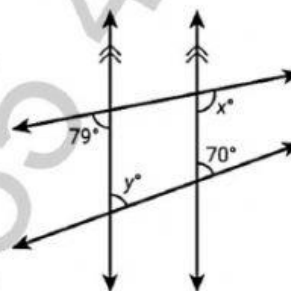
Khalifa is splitting an office space into 8 separate sections by using 3 walls, as shown in the diagram. Which angle is the vertical angle to $\angle 1$?

is a vertical angle to $\angle 1$.



Amna is making a design on some fabric. The two vertical lines are parallel.

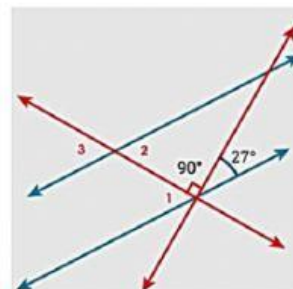
Find the value of y .



In this diagram the two blue lines are parallel.

Find the measure of angle 1.

$m\angle 1 =$.



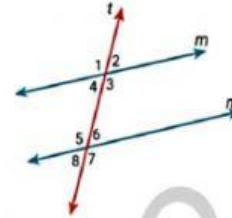
056 285 42 82 الأستاذ / طارق علي

Mr Tarek Ali	Grade 8	0562854282
Term 2	Revision	CH5

Two parallel lines, m and n , are cut by a transversal, t .

$$m\angle 1 = 115^\circ$$

Find the measure of angle 7.



Angles a and b are supplementary angles.

Which additional statements must always be true about the two angles?

حدد خيارين (1)

☐ a Angles a and b form a right angle.

☐ c $m\angle a + m\angle b = 180^\circ$

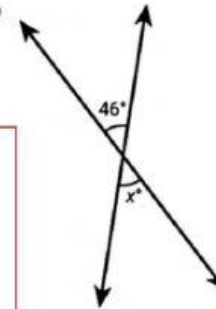
☐ b Angles a and b form a linear pair.

☐ d $m\angle a = m\angle b$

A student is given the diagram shown. He is asked to find the value of x , and to prove his conclusion.

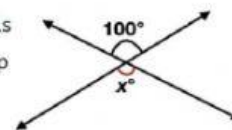
The pair of angles that are most useful in the proof are the Select... angles.

- adjacent
- right
- corresponding
- vertical



A student is asked to find the value of x , and then prove that this value equals 100. The angle relationship that is most useful in this proof is the relationship between the Select... angles.

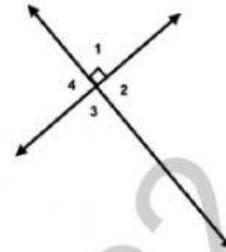
- vertical
- complementary
- supplementary
- adjacent



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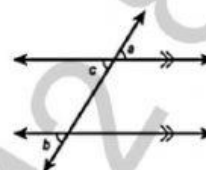
Mr Tarek Ali	Grade 8	0562854282
Term 2	Revision	CH5

In this diagram, angles 2 and 3 are an example of



Given: Two parallel lines cut by a transversal.

Prove: $m\angle a = m\angle b$



What two angle relationships can be used to prove this?

a corresponding angles and vertical angles

c vertical angles and alternate interior angles

b alternate interior angles and corresponding angles

d alternate interior angles and supplementary angles

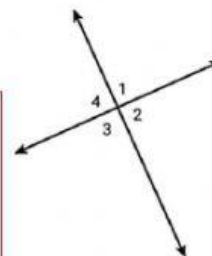
In this diagram, the sum of the measures of angles 3 and 4 is Select... ▼.

90°

180°

360°

270°



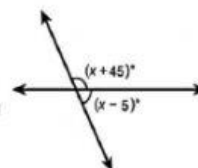
056 285 42 82 الأستاذ / طارق علي

Mr Tarek Ali	Grade 8	0562854282
Term 2	Revision	CH5

A student is given the diagram shown here, and is asked to find the value of x .

The relationship of the is most useful angle relationship to use in the reasons in the proof

- linear pair
- corresponding angles
- complementary pair
- vertical angles



Given $m\angle A = 30^\circ$, triangle ABC has a right angle at B .

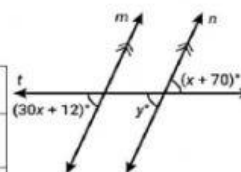
Prove: $m\angle C = 60^\circ$



Statements	Reasons
a. $m\angle A = 30^\circ$, triangle ABC has a right angle at B	a. Given
b. $m\angle B = 90^\circ$	b.
c. $m\angle A + m\angle B + m\angle C = 180^\circ$	c. Sum of interior angles of a triangle
d. $30^\circ + 90^\circ + m\angle C = 180^\circ$	d.
e.	e.

Fill in the missing reason:

Statements	Reasons
$m \parallel n$	Given
$30x + 12 = x + 70$	



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