

TEACHER'S NAME:

NAME:

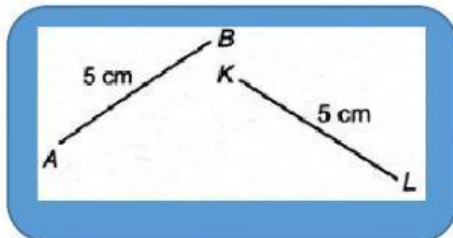
CLASS:

8.1 LINES AND ANGLES

NOTES

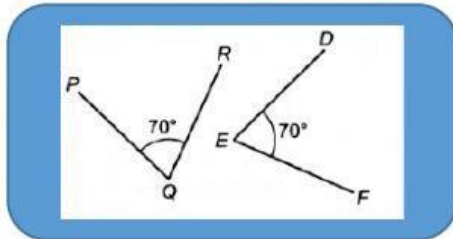
- Two or more lines are congruent when all the lines have the same length
- Two or more angles are congruent when all the angles have the same size

A Determine whether the figure below is congruent or not (Choose an answer)



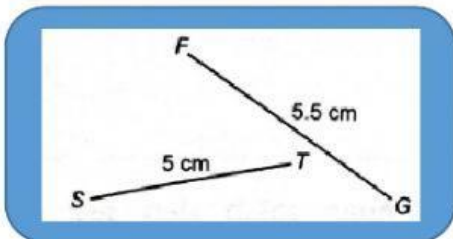
Congruent

Not a Congruent



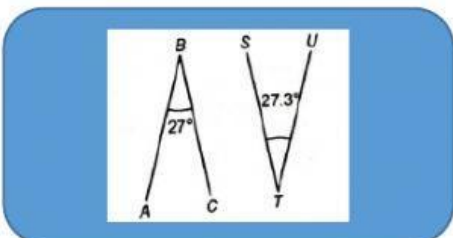
Congruent

Not a Congruent



Congruent

Not a Congruent



Congruent

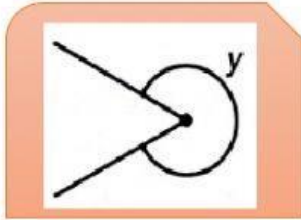
Not a Congruent

B Match the angles below with the diagram and the correct angle size.



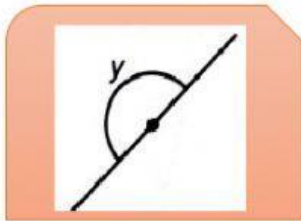
Reflex Angle

$$y = 360^{\circ}$$



Angle of one whole
return

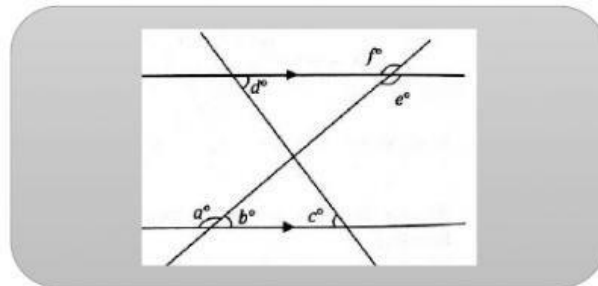
$$y = 180^{\circ}$$



Angle on a straight line

$$180^{\circ} < y < 360^{\circ}$$

C Match the angle pair with the correct angle type.



$\angle b$ and $\angle e$

Corresponding angles

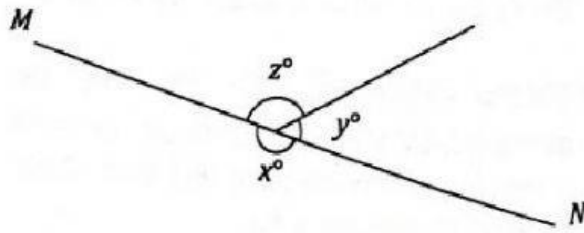
$\angle c$ and $\angle d$

Alternate Angles

$\angle a$ and $\angle f$

Interior Angles

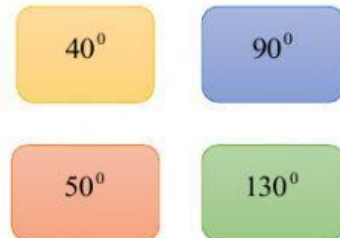
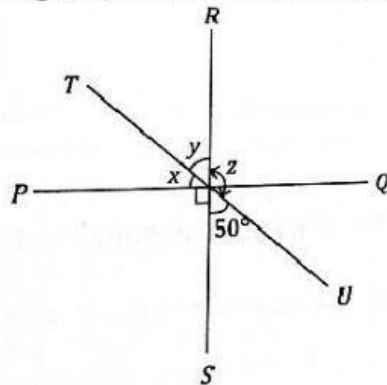
D Mark / on the correct statement and X for the incorrect statement in the diagram below.



| | |
|---|--|
| z° is the reflex angle | |
| $y^{\circ} + z^{\circ}$ is equal to x° | |
| $x^{\circ} + y^{\circ} + z^{\circ}$ is an angle of one whole return | |
| x° and z° are supplementary angles | |

E Solve

a In the diagram, PQ, RS and TU are straight lines.



Based on the answer choices given above, write the value of the angle.

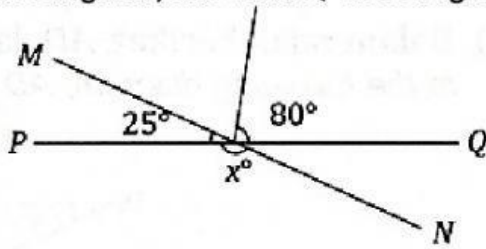
(Write numbers only. Example 50)

$\angle x =$ _____

$\angle y =$ _____

$\angle z =$ _____

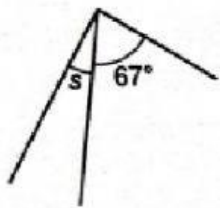
b In the diagram , MN and PQ are straight lines.



Choose a correct calculation step to determine the value of x and mark / in the answer space and mark X if not.

| | |
|--------------------------------|--------------------------|
| $x = 180^{\circ} - 25^{\circ}$ | <input type="checkbox"/> |
| $x = 180^{\circ} - 80^{\circ}$ | <input type="checkbox"/> |
| $x = 80^{\circ} + 25^{\circ}$ | <input type="checkbox"/> |

c



23°

49°

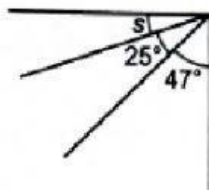
67°

52°

Find the value of s.

(Choose 1 answer)

d



25°

15°

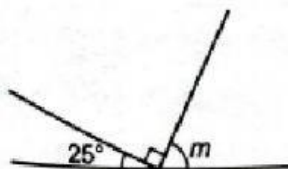
35°

18°

Find the value of s.

(Choose 1 answer)

e



70°

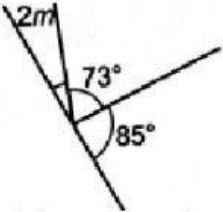
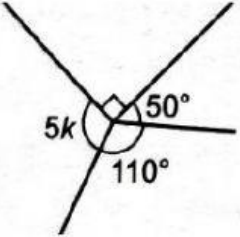
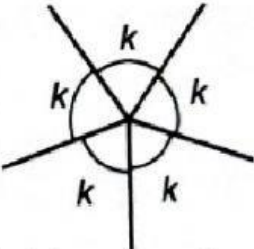
61°

65°

54°

Find the value of m.

(Choose 1 answer)

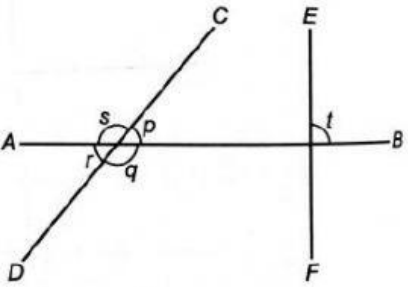
| | |
|--|--|
| <p>f</p>  <p>Find the value of m.</p> | <div style="display: flex; justify-content: space-around;"> <div style="background-color: #f4a460; border-radius: 10px; padding: 5px 15px;">71°</div> <div style="background-color: #f4c460; border-radius: 10px; padding: 5px 15px;">56°</div> </div> <div style="display: flex; justify-content: space-around; margin-top: 10px;"> <div style="background-color: #d3d3d3; border-radius: 10px; padding: 5px 15px;">65°</div> <div style="background-color: #90ee90; border-radius: 10px; padding: 5px 15px;">11°</div> </div> <p style="text-align: center; color: #4682b4;">(Choose 1 answer)</p> |
| <p>g</p>  <p>Find the value of k.</p> | <div style="display: flex; justify-content: space-around;"> <div style="background-color: #f4a460; border-radius: 10px; padding: 5px 15px;">14°</div> <div style="background-color: #f4c460; border-radius: 10px; padding: 5px 15px;">22°</div> </div> <div style="display: flex; justify-content: space-around; margin-top: 10px;"> <div style="background-color: #d3d3d3; border-radius: 10px; padding: 5px 15px;">31°</div> <div style="background-color: #90ee90; border-radius: 10px; padding: 5px 15px;">40°</div> </div> <p style="text-align: center; color: #4682b4;">(Choose 1 answer)</p> |
| <p>h</p>  <p>Find the value of k.</p> | <div style="display: flex; justify-content: space-around;"> <div style="background-color: #f4a460; border-radius: 10px; padding: 5px 15px;">72°</div> <div style="background-color: #f4c460; border-radius: 10px; padding: 5px 15px;">78°</div> </div> <div style="display: flex; justify-content: space-around; margin-top: 10px;"> <div style="background-color: #d3d3d3; border-radius: 10px; padding: 5px 15px;">66°</div> <div style="background-color: #90ee90; border-radius: 10px; padding: 5px 15px;">52°</div> </div> <p style="text-align: center; color: #4682b4;">(Choose 1 answer)</p> |

8.2 ANGLES RELATED TO INTERSECTING LINES

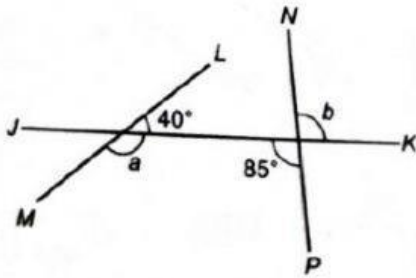
NOTES

- All angles on two intersecting lines perpendicular to each other are 90° .

F Solve.

| | | |
|----------|---|--|
| <p>a</p> |  <p>The opposite angles are the same..</p> | <p>i) $\angle p = \angle \underline{\hspace{2cm}}$</p> <p>ii) $\angle q = \angle \underline{\hspace{2cm}}$</p> |
|----------|---|--|

b JK, LM and NP is a staright lines.



Find the value of a and b.

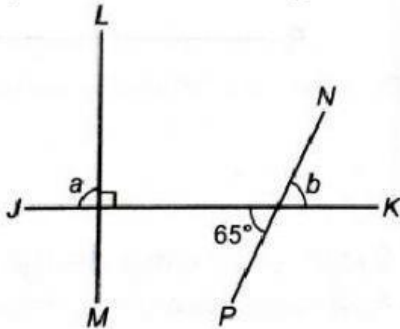
$a = 100^{\circ}$

$a = 140^{\circ}$

$b = 80^{\circ}$

$b = 85^{\circ}$

c JK, LM and NP is a staright lines.



Find the value a and b.

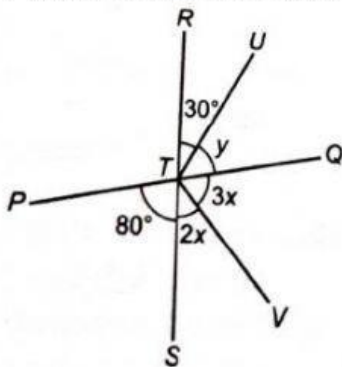
$a = 90^{\circ}$

$a = 95^{\circ}$

$b = 65^{\circ}$

$b = 55^{\circ}$

PTQ and RTS is a staright lines.



Find the value x and y.

$x = 35^{\circ}$

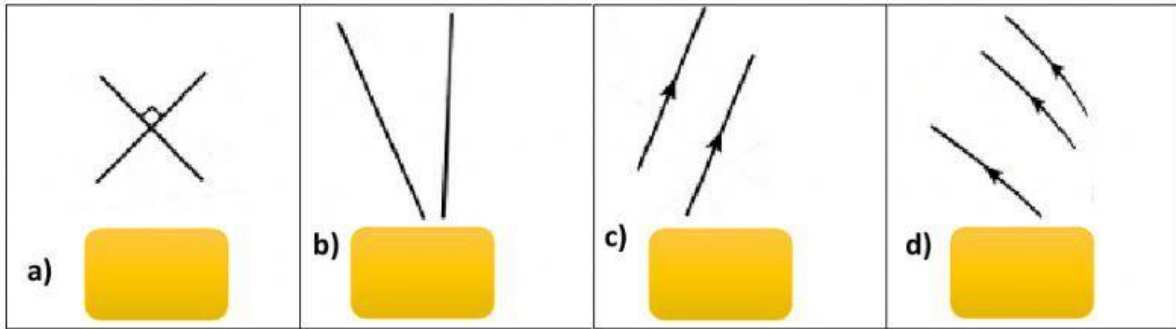
$x = 20^{\circ}$

$y = 50^{\circ}$

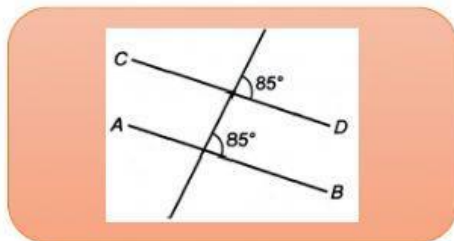
$y = 70^{\circ}$

8.3 ANGLES RELATED TO PARALLEL LINES AND TRANSVERSALS

G Mark / on parallel lines and X if not.

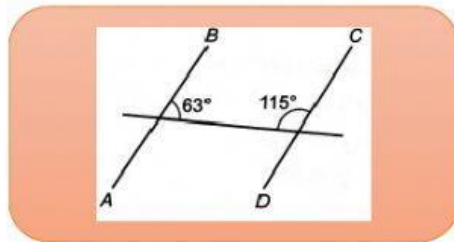


I Determine whether the line AB is parallel or non-parallel.



Parallel

Not a Parallel

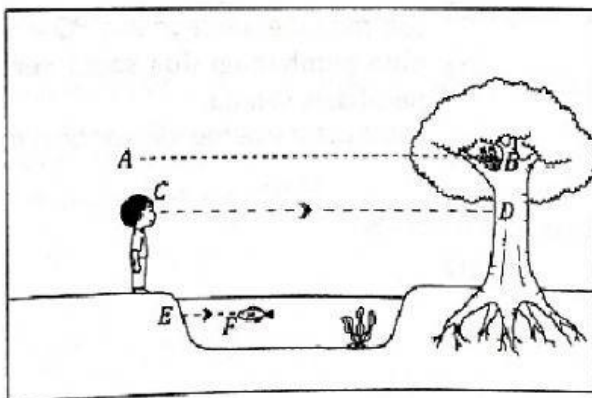


Parallel

Not a Parallel

K Solve the questions below to identify the angle of elevation or the angle of depression

The diagram shows the situation. The lines AB, CD and EF are parallel.



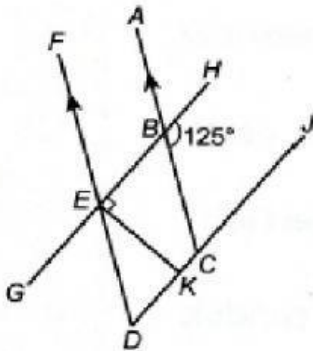
Determine the angle in the answer space either the angle of elevation or the angle of depression.

(Write in words in the answer space. Use small letters)

| | |
|--------------|--|
| $\angle DCF$ | |
| $\angle DCB$ | |
| $\angle EFC$ | |
| $\angle ABC$ | |

L Solve

a) $GEBH$ and $DKCJ$ is a straight lines.



- i) i) Name the corresponding angle of $\angle HBC$.
(Follow the alphabetical order when writing. Example: ABC)

- ii) Find the value of $\angle KED$. (Choose 1 answer)

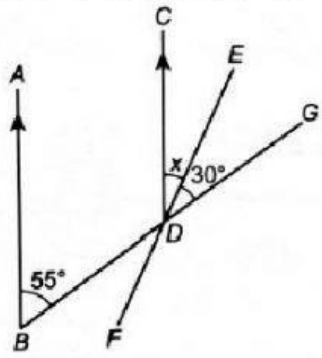
42°

38°

35°

48°

b) BDG and EDF is a straight lines.



i) State the corresponding angle of $\angle ABD$.

\angle _____

ii) Hence, state the value of x . (Pilih 1 jawapan)

29⁰

25⁰

35⁰

43⁰