Surname	
Other Names	
Candidate's Signature	

GCSE 9 - 1 Questions

Angles

Calculator Not Allowed

INSTRUCTIONS TO CANDIDATES

Write your name in the space provided.

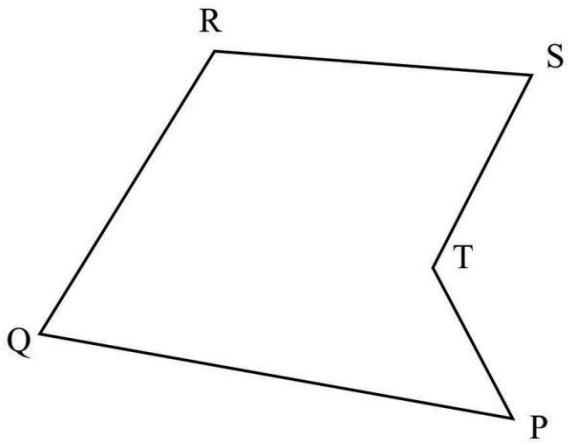
Write your answers in the spaces provided in this question paper.

Answer ALL questions.

Any working should be clearly shown in the spaces provided since marks may be awarded for partially correct solutions.

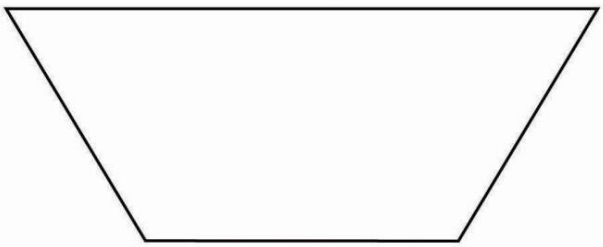
Total Marks :

1) Mark a reflex angle in the shape shown.



[1]

2)

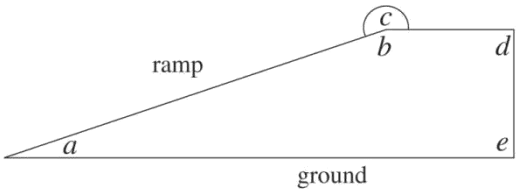


On the diagram above label

(i) an acute angle with the letter A.

(ii) an obtuse angle with the letter B. [2]

3) **(a)**



The diagram shows the side view of a ramp for a car wheel.

Which of the angles a, b, c, d or e is

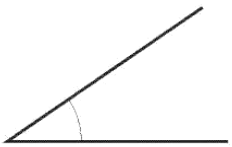
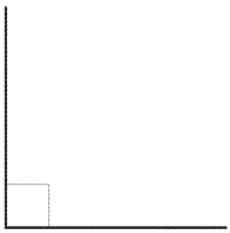
(i) an acute angle,

Answer Angle _____ [1]

(ii) a reflex angle?

Answer Angle _____ [1]

4) Complete the table below. The first one has already been completed for you.

Angle	Name of angle	Reason
	Acute	The angle is between 0° and 90°
		
		

5) Calculate the size of angle a.

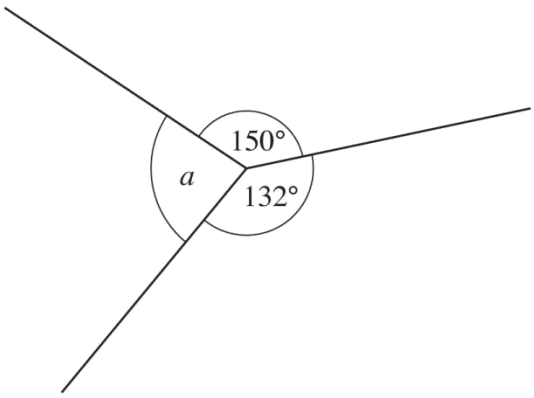


Diagram not drawn accurately

Answer a = _____° [2]

6) Find the size of angle x. [2]

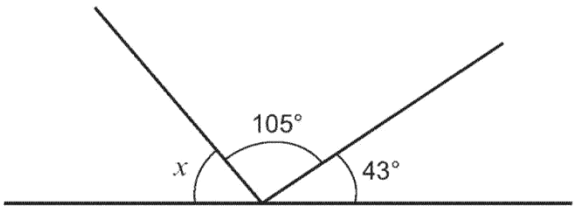


Diagram not drawn to scale

.....

.....

.....

.....

x = ... °

7) *AB* is a straight line.

Calculate the size of angle x. [2]

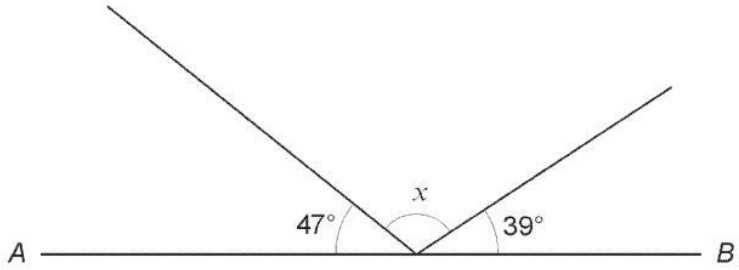


Diagram not drawn to scale

.....

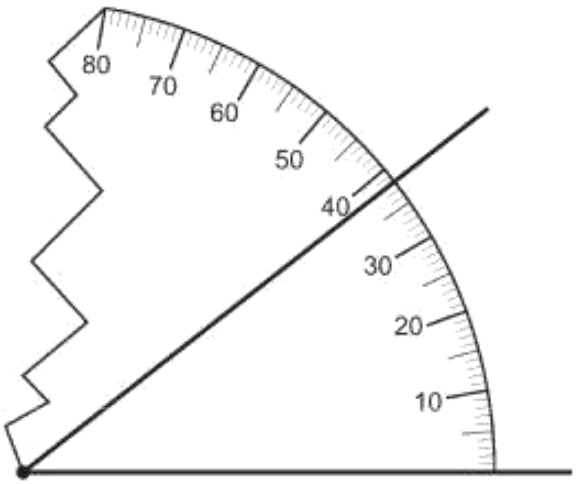
.....

.....

.....

x = ... °

8) The diagram below shows an angle measurer that has been placed to measure the size of an angle.
What is the size of the angle that is being measured?

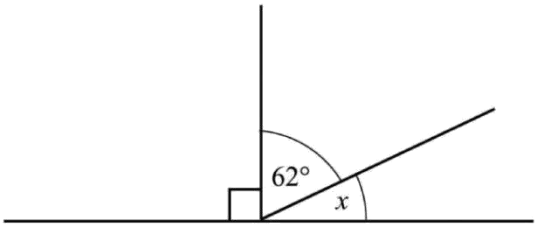


Size of angle = ... °

[1]

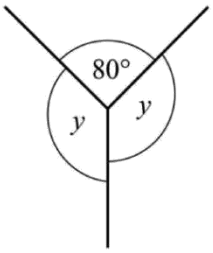
9) Calculate

(a) angle x



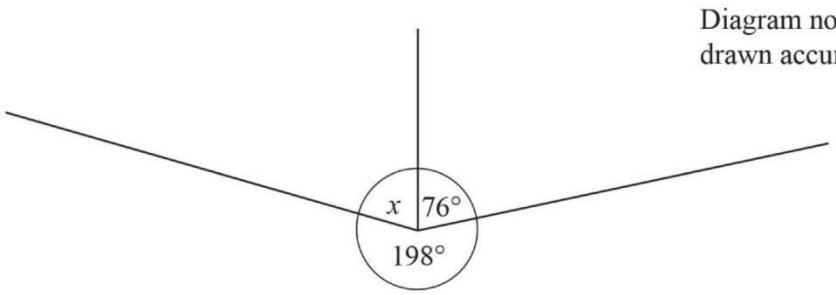
Answer x = _____° [1]

(b) angle y



Answer y = _____° [1]

10)



(a) 76° is an acute angle.

What type of angle is 198° ?

Answer _____ [1]

(b) Susan says angle x is also 76°

Explain why she is wrong.

[2]

11)

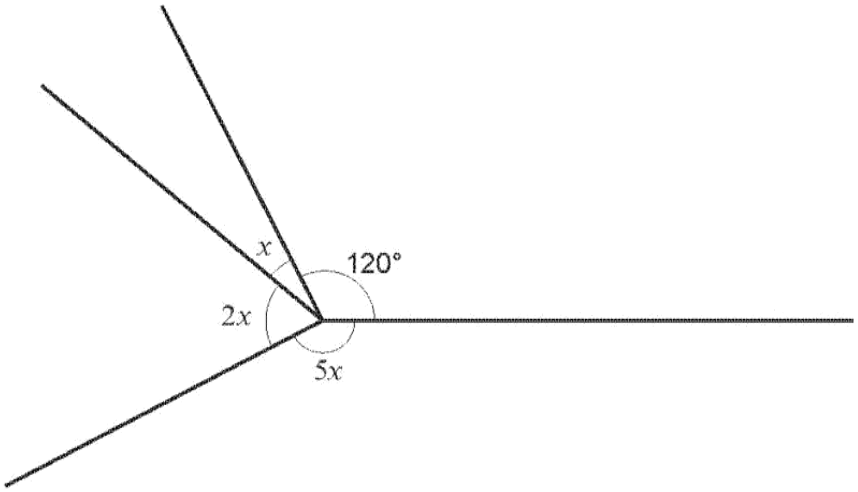
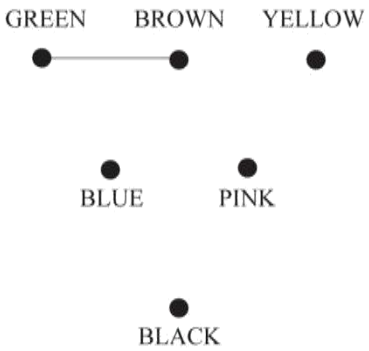


Diagram not drawn to scale

All the angles shown are measured in degrees.
Find the value of x which satisfies this diagram.
You must show all your working. [3]

12) Six snooker balls are spaced as shown.



(i) On the diagram above, draw another straight line linking 2 balls to make an obtuse angle. [1]

13) Calculate the exact angle between the hour hand and the minute hand on a clock when the time is 5 p.m. You must show your working.

[3]