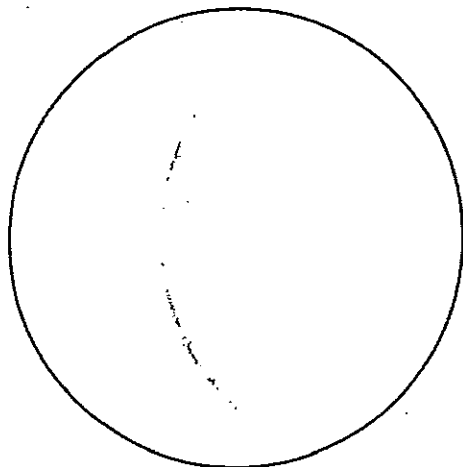


Geometrical constructions

Name: _____

All Multiple Choice

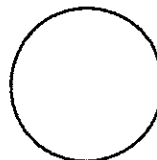
1 The radius of the circle drawn is:



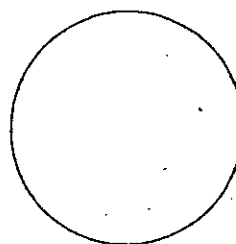
- A 2 cm
- B 3 cm
- C 4 cm
- D 6 cm

2 Which of the circles drawn below has a diameter of 3 cm?

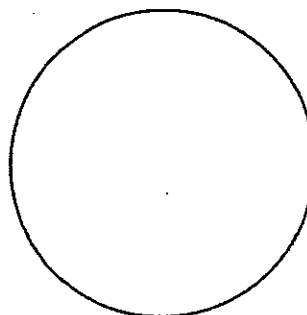
A



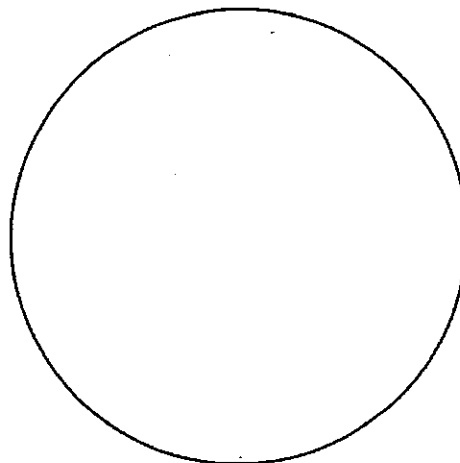
B



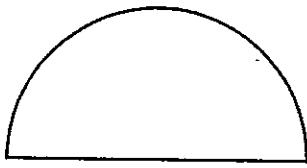
C



D

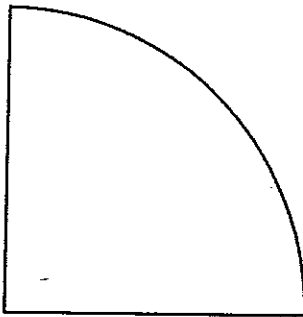


3 The figure drawn below is:



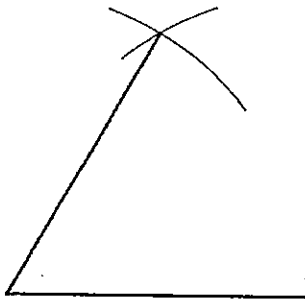
- A a semicircle with a 4 cm diameter
- B a semicircle with a 4 cm radius
- C a quadrant with a 4 cm diameter
- D a quadrant with a 4 cm radius.

4 The figure drawn below is:



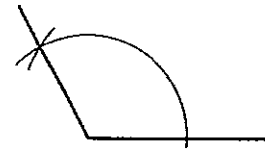
- A a semicircle with a 4 cm diameter
- B a semicircle with a 4 cm radius
- C a quadrant with a 4 cm diameter
- D a quadrant with a 4 cm radius.

5 The figure below shows:



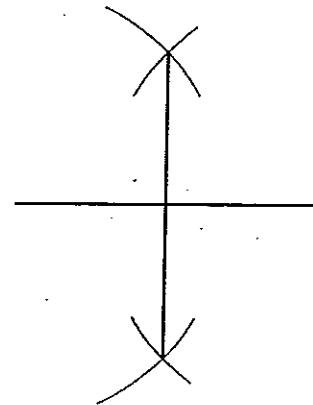
- A construction of a right angle
- B bisection of an angle
- C construction of a 60° angle
- D copying of an angle.

6 The figure below shows:



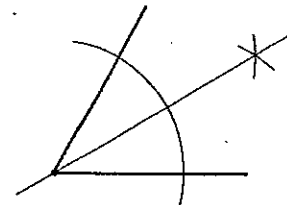
- A construction of a right angle
- B bisection of an angle
- C construction of a 60° angle
- D copying of an angle.

7 The figure below shows:



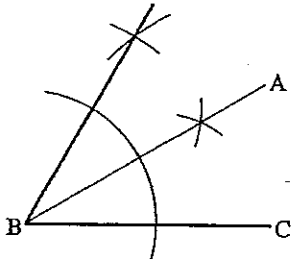
- A construction of a right angle
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- C construction of a 60° angle
- D copying of an angle.

8 The figure below shows:



- A construction of a right angle
- B bisection of an angle
- C construction of a 60° angle
- D copying of an angle.

- 9 Jamie constructs $\angle ABC$ below.



The size of $\angle ABC$ is

- A 30°
- B 45°
- C 60°
- D 90°

- 10 Kylie is asked by her teacher to construct a number of triangles having been given all three side lengths. Which of these triangles is it NOT possible to construct?

- A 3 cm, 4 cm, 2 cm
- B 2 cm, 4 cm, 5 cm
- C 3 cm, 8 cm, 4 cm
- D 4 cm, 5 cm, 7 cm

- 11 Which of the following triangles is it possible to construct using only a ruler and a pair of compasses?
- A Sides 4 cm, 5 cm and an included angle of 80° .
 - B Side 6 cm with angles 60° and 50° made to this side.
 - C Sides 5 cm, 8 cm and 4 cm.
 - D All of the above

- 12 Trent is asked by his teacher to construct a number of triangles having been given one side length and two angles. Which of these triangles is it NOT possible to construct?

- A 3 cm, 80° , 120°
- B 2 cm, 40° , 120°
- C 3 cm, 80° , 90°
- D 4 cm, 40° , 20°

Geometrical constructions

Name: _____

- 1 Use your compass to construct a circle of
- (a) radius 2 cm
 - (b) diameter 3 cm.

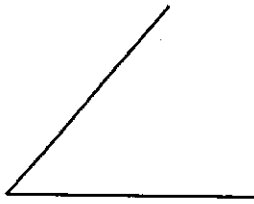
-
- 2 (a) Construct a semicircle with diameter 4 cm.
- (b) Construct a quadrant with radius 2.5 cm.
-

3 Construct a right angle.

4 Construct a 60° angle.

5 Copy each of the angles drawn below.

(a)



(b)



6 Bisect each of the angles in question 5.

7 Construct angles of the following sizes.

- (a) 45°
 - (b) 30°
 - (c) 120°
-

8 Construct $\triangle ABC$ with side lengths 5 cm, 2 cm and 4 cm.

9 Construct a triangle with side lengths 6 cm and 4 cm and an included angle of 50° .

(

10 Construct a triangle with a side length of 5 cm and angles of 80° and 40° made to this side.

(

Geometrical constructions

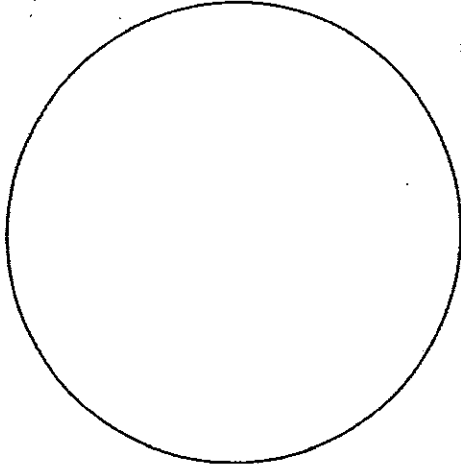
Excellent work!

See minor corrections!

Name: Zain

All Multiple Choice

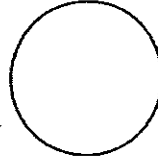
1 The radius of the circle drawn is:



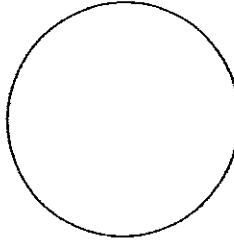
- A 2 cm
- B 3 cm
- C 4 cm
- D 6 cm

2 Which of the circles drawn below has a diameter of 3 cm?

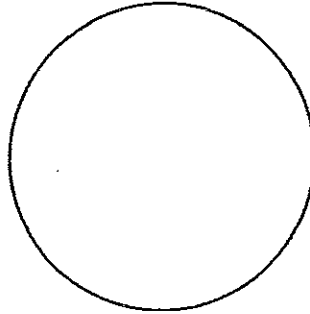
A



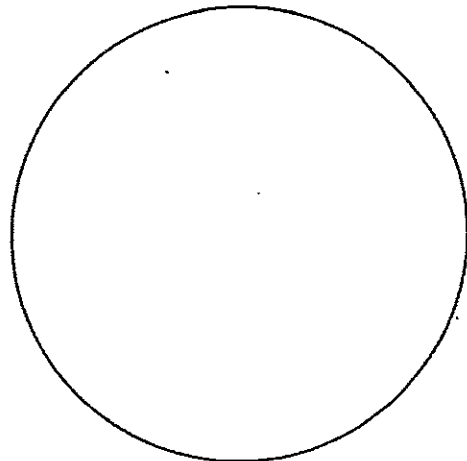
B



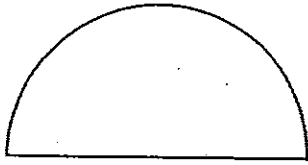
C



D

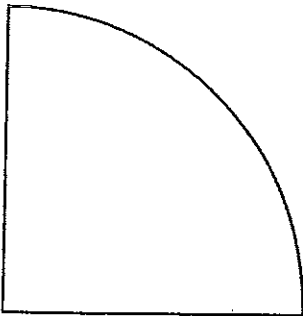


3 The figure drawn below is:



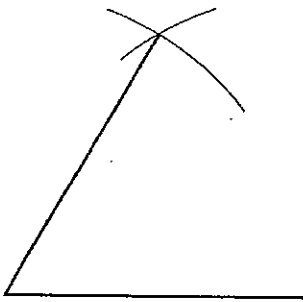
- A a semicircle with a 4 cm diameter
- B a semicircle with a 4 cm radius
- C a quadrant with a 4 cm diameter
- D a quadrant with a 4 cm radius.

4 The figure drawn below is:



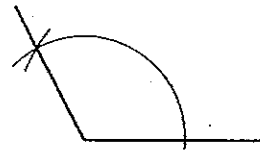
- A a semicircle with a 4 cm diameter
- B a semicircle with a 4 cm radius
- C a quadrant with a 4 cm diameter
- D a quadrant with a 4 cm radius.

5 The figure below shows:



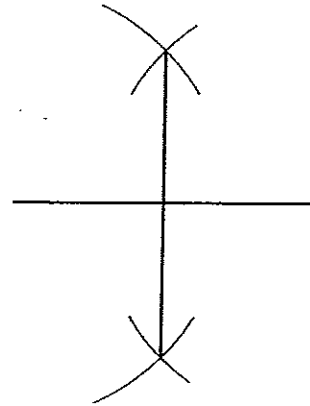
- A construction of a right angle
- B bisection of an angle
- C construction of a 60° angle
- D copying of an angle.

6 The figure below shows:



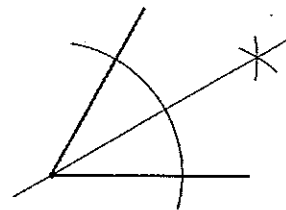
- A construction of a right angle
- B bisection of an angle
- C construction of a 60° angle
- D copying of an angle.

7 The figure below shows:



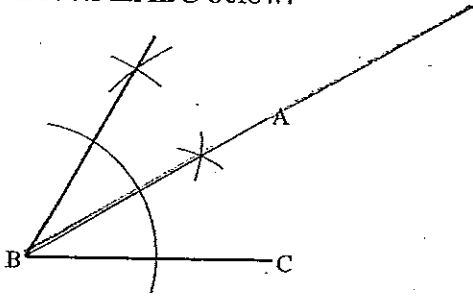
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- A construction of a right angle
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- 9 Jamie constructs $\angle ABC$ below.



The size of $\angle ABC$ is

- A 30°
 B 45°
 C 60°
 D 90°

- 9 Kylie is asked by her teacher to construct a number of triangles having been given all three side lengths. Which of these triangles is it NOT possible to construct?

- A 3 cm, 4 cm, 2 cm
 B 2 cm, 4 cm, 5 cm
 C 3 cm, 8 cm, 4 cm
 D 4 cm, 5 cm, 7 cm

Sum of any 2 sides must be greater than the third side

- 11 Which of the following triangles is it possible to construct using only a ruler and a pair of compasses?

- A Sides 4 cm, 5 cm and an included angle of 80° .
 B Side 6 cm with angles 60° and 50° made to this side.
 C Sides 5 cm, 8 cm and 4 cm.

D All of the above

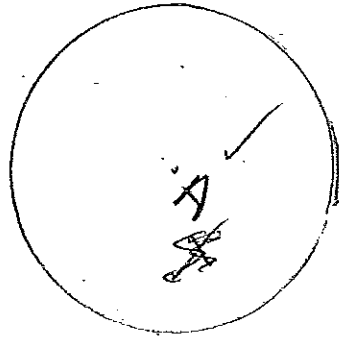
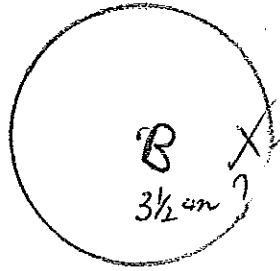
- 12 Trent is asked by his teacher to construct a number of triangles having been given one side length and two angles. Which of these triangles is it NOT possible to construct?

- A 3 cm, 80° , 120°
 B 2 cm, 40° , 120°
 C 3 cm, 80° , 90°
 D 4 cm, 40° , 20°

Geometrical constructions

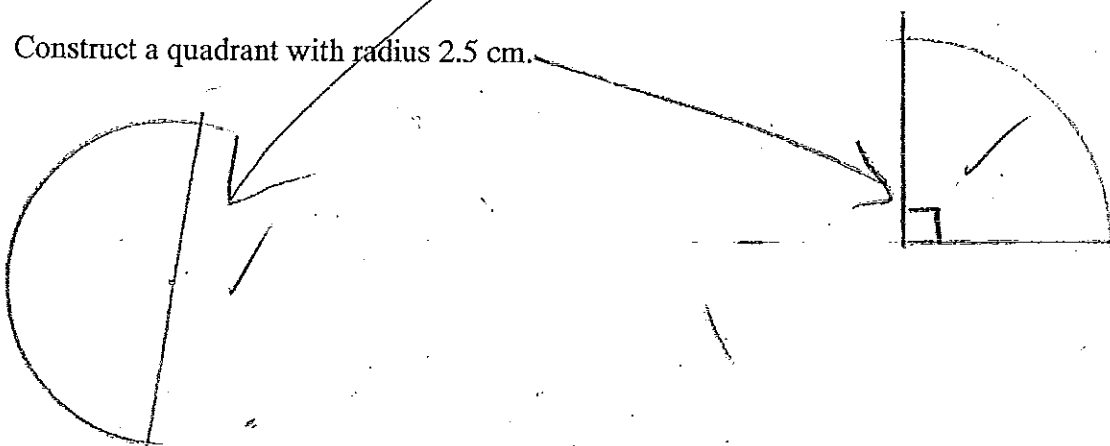
Name: _____

- 1 Use your compass to construct a circle of
- (a) radius 2 cm
 - (b) diameter 3 cm.

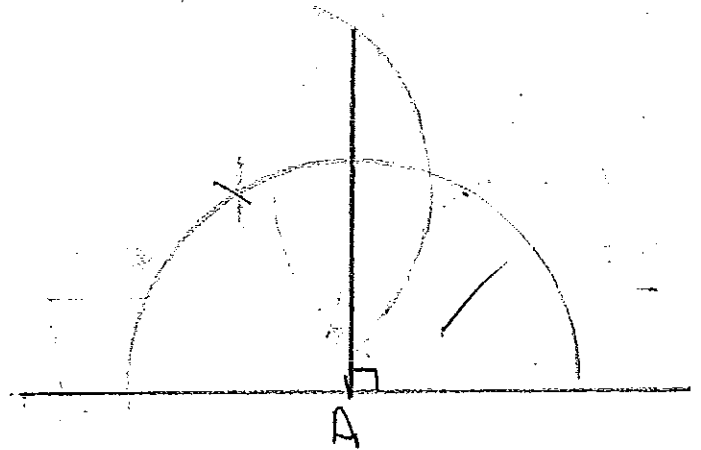
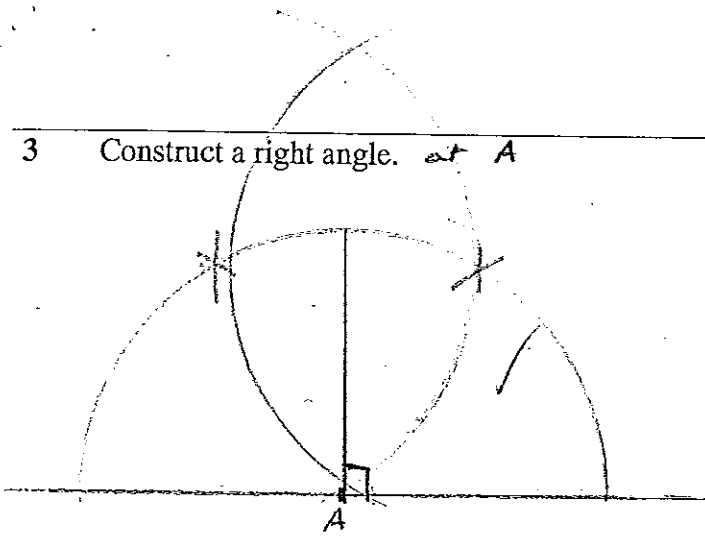


-
- 2 (a) Construct a semicircle with diameter 4 cm.

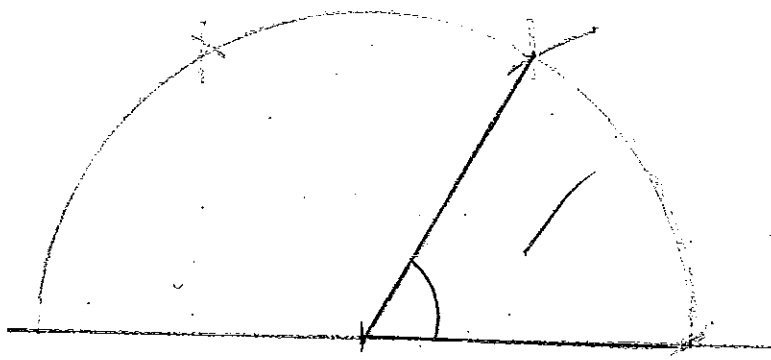
- (b) Construct a quadrant with radius 2.5 cm.



3 Construct a right angle. at A

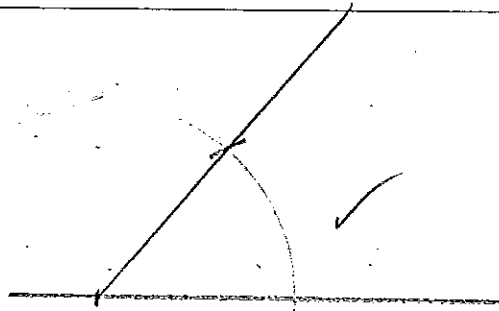
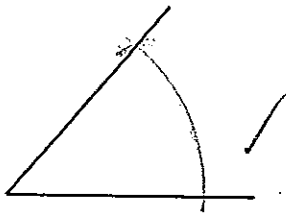


4 Construct a 60° angle.

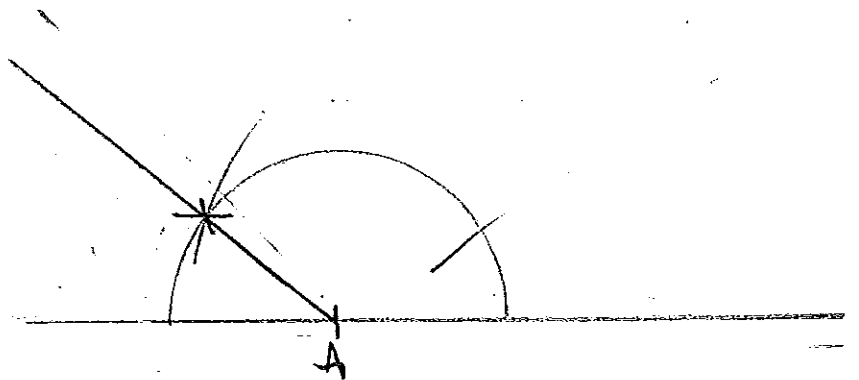
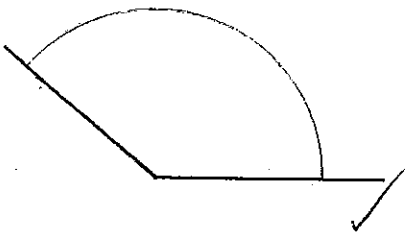


5 Copy each of the angles drawn below.

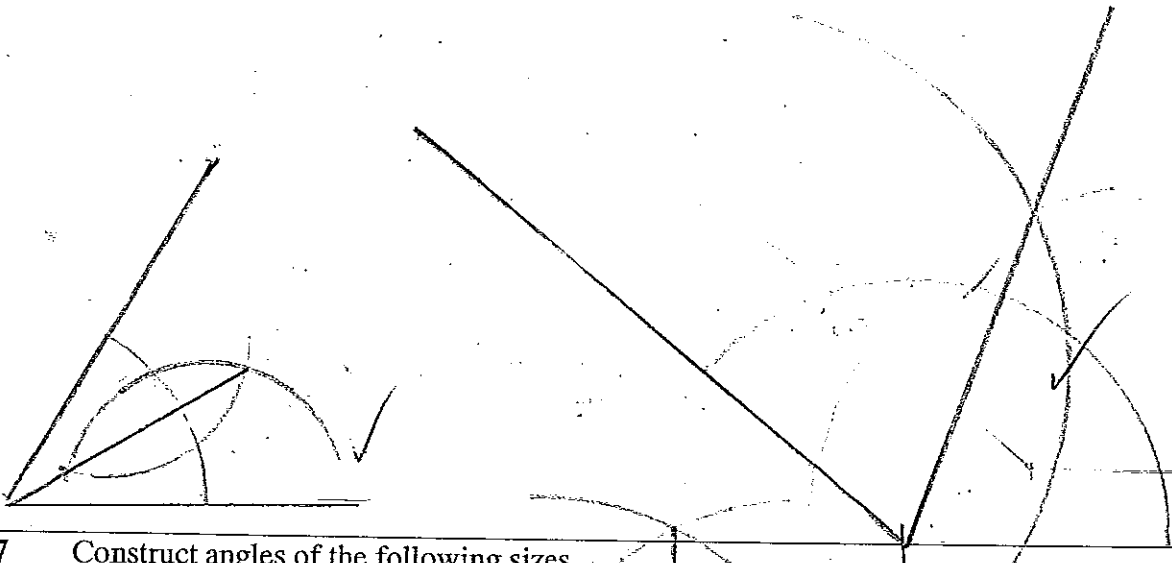
(a)



(b)



6 Bisect each of the angles in question 5.

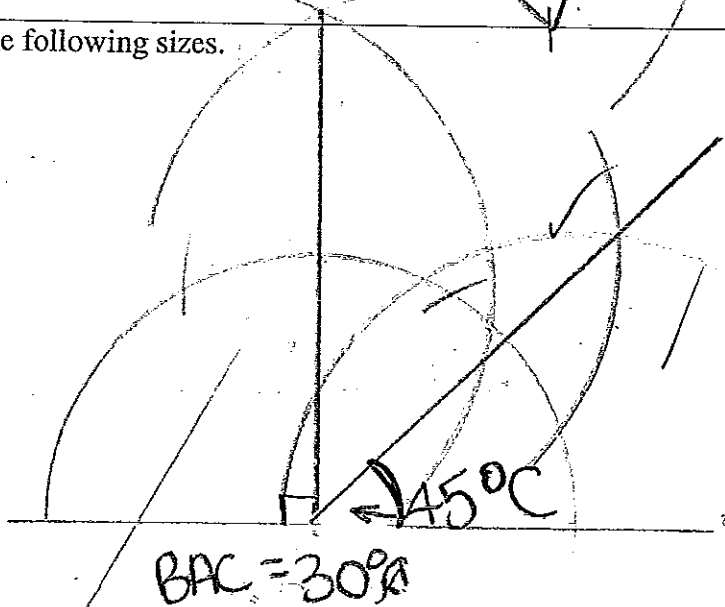


7 Construct angles of the following sizes.

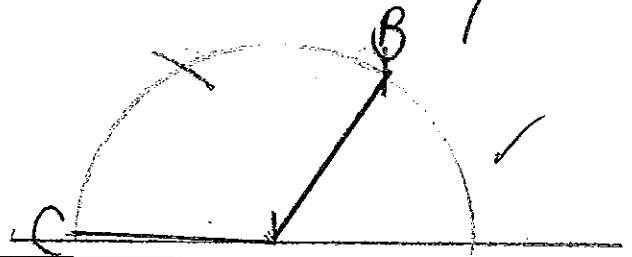
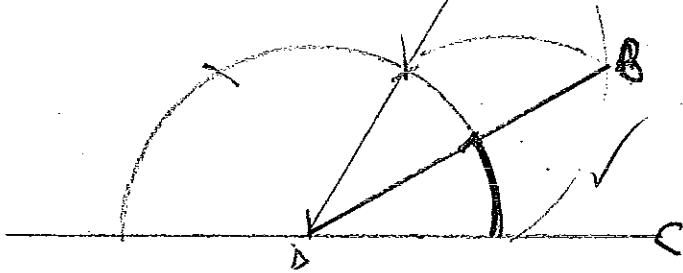
(a) 45°

(b) 30°

(c) 120°

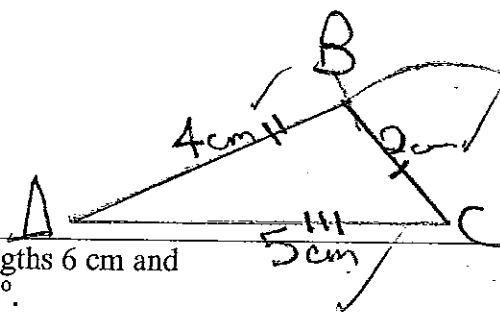


$BAC = 30^\circ$

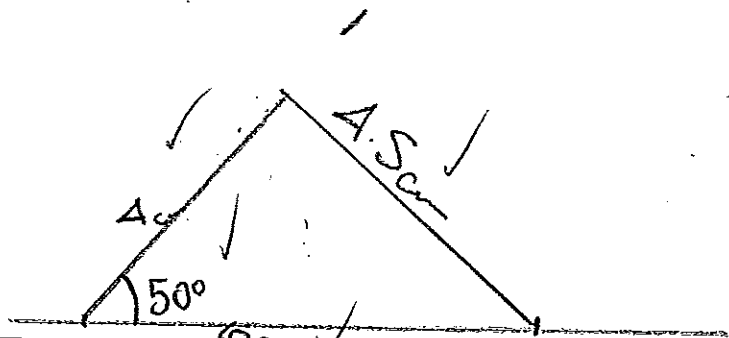


$C\hat{A}B = 120^\circ$

- 8 Construct $\triangle ABC$ with side lengths 5 cm, 2 cm and 4 cm.



- 9 Construct a triangle with side lengths 6 cm and 4 cm and an included angle of 50° .



- 10 Construct a triangle with a side length of 5 cm and angles of 80° and 40° made to this side.

