

Name:.....

Total Marks:.....

# GCSE (9-1) Grade 5

## Exact

# Trigonometric Values



### Instructions

Use **black** ink or ball-point pen.

**Fill in the boxes** at the top of this page with your name.

Answer **all** questions.

Answer the questions in the spaces provided

– there may be more space than you need.

**Show all your working out**

### Information

The total mark for this paper is 21.

The marks for **each** question are shown in brackets.

Use this as a guide as to how much time to spend on each question.

Questions labelled with an **asterisk** (\*) are ones where the quality of your written communication will be assessed

### Advice

Read each question carefully before you start to answer it

Attempt every question

Check your answers if you have time at the end



**1.** Write down the exact values of:

- a)  $\sin 0^\circ$  .....(1)
  - b)  $\sin 30^\circ$  .....(1)
  - c)  $\sin 45^\circ$  .....(1)
  - d)  $\sin 60^\circ$  .....(1)
  - e)  $\sin 90^\circ$  .....(1)
- 

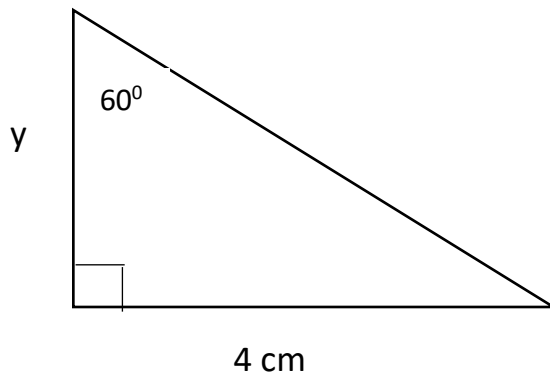
**2.** Write down the exact values of:

- a)  $\cos 0^\circ$  .....(1)
  - b)  $\cos 30^\circ$  .....(1)
  - c)  $\cos 45^\circ$  .....(1)
  - d)  $\cos 60^\circ$  .....(1)
  - e)  $\cos 90^\circ$  .....(1)
- 

**3.** Write down the exact values of

- a)  $\tan 0^\circ$  .....(1)
- b)  $\tan 30^\circ$  .....(1)
- c)  $\tan 45^\circ$  .....(1)
- d)  $\tan 60^\circ$  .....(1)

4. The diagram shows a right-angled triangle

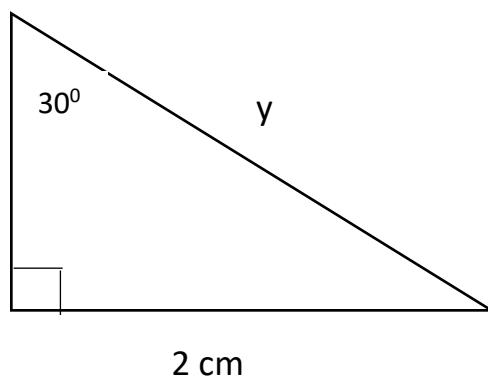


Find the exact length of side marked y

.....  
(3 marks)

---

5. The diagram shows a right-angled triangle



Find the exact length of side marked y

.....  
(3 marks)