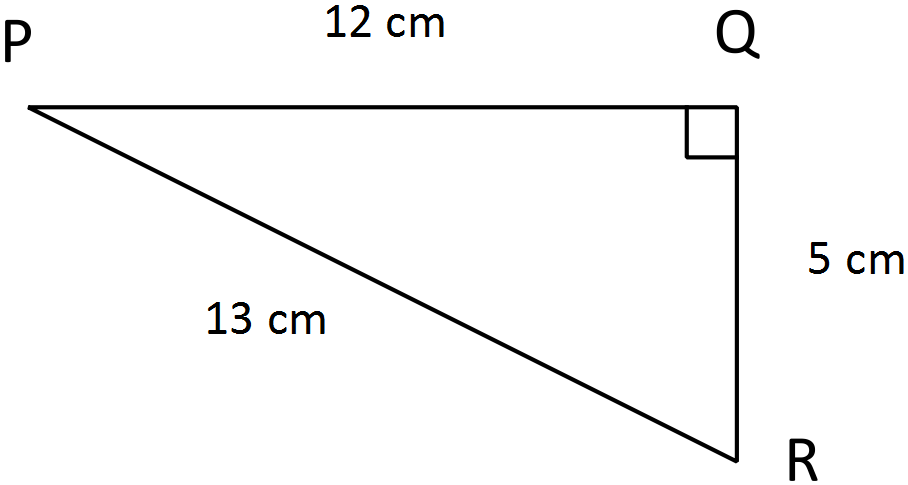


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| --- | --- | --- |
| Mathematics Department | |  |
| Course: A2MAA | |
| Topic Title: Test 3 Calculator Free | |
| Student Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Date: \_\_\_\_\_\_\_\_\_\_\_\_ | | |
| Special Instructions: Formula Sheet allowed and no calculators | Time Allowed: 10 minutes | | |
| **Show all working clearly** | Marks: / 10 | | |

**Question 1. (4 marks)**

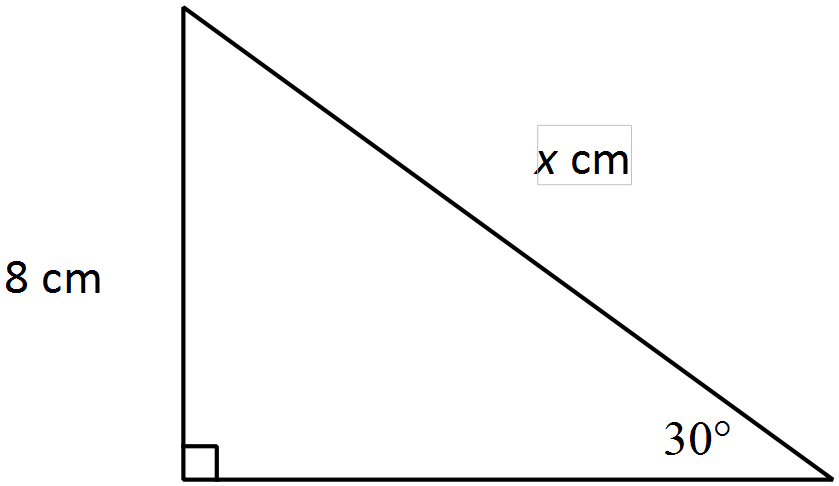
Use the triangle below to obtain the fractions for the trigonometric ratios given.



1. sin *P* = \_\_\_\_\_\_\_\_\_
2. sin *R* = \_\_\_\_\_\_\_\_\_
3. cos *R* = \_\_\_\_\_\_\_\_
4. tan *P* = \_\_\_\_\_\_\_\_

**Question 2. (2 marks)**

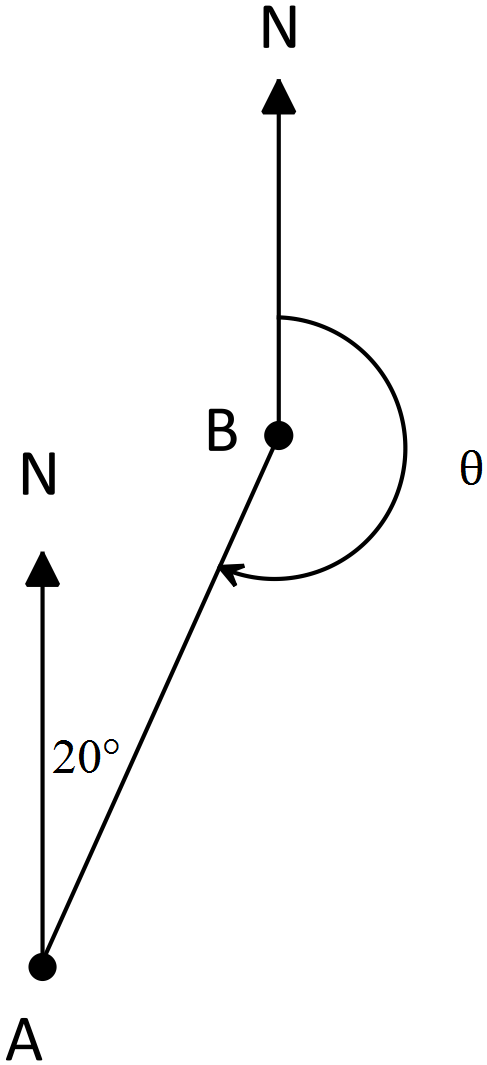
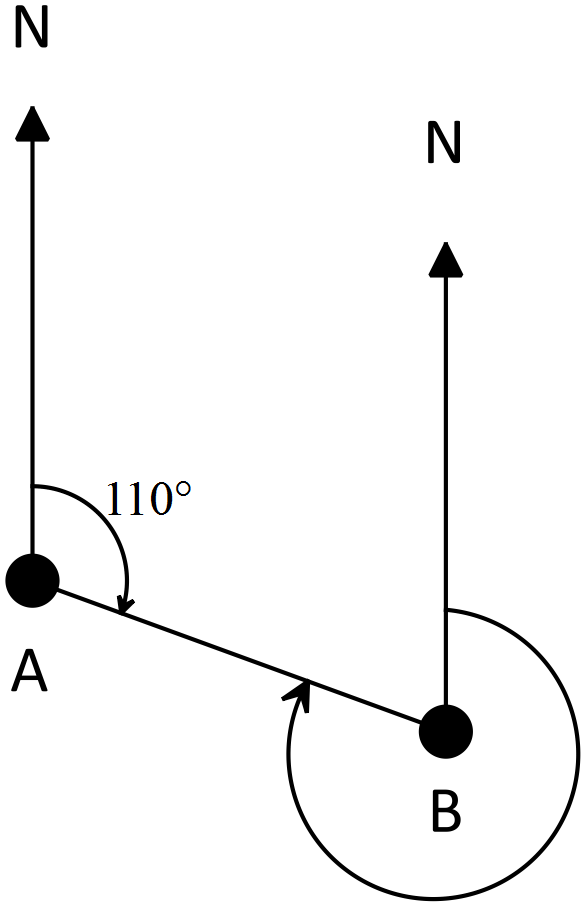
If , calculate the length of the missing side.



**Question 3. (2 marks)**

Calculate the bearing of A from B in the following two scenarios.

1. b)



**Question 4. (2 marks)**

If , calculate the area of the triangle below.

