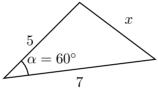
(b) (2 marks) Use the Cosine Rule  $a^2=b^2+c^2-2bc\cos\alpha$  to calculate the value of x for the following triangle:



## Solution:

$$x^{2} = 5^{2} + 7^{2} - 2 \cdot 5 \cdot 7 \cos 60$$
$$= 25 + 49 - 70/2 = 39$$

and therefore  $x = \sqrt{3}9 = 6.24$ .