



3) Calculate the value for the angle x (giving answers to nearest degree):

a)
$$\sin x = \frac{2}{3}$$
 b) $\cos x = \frac{4}{5}$ c) $\tan x = \frac{13}{5}$ d) $\sin x = \frac{2}{7}$



Basic











Advanced

1) Calculate the value of *x*.

a)



A ship at sea is 108m from the foot of a cliff. The angle of elevation of the top of the cliff from the ship is
41°, as shown in the diagram. Find the height of the cliff.





Advanced

3) A ladder 4.2m long is leaning against a wall. The foot of the ladder is 3.7m from the wall. What angle does the ladder make with the ground?



4) Find the sizes of all the angles in the rectangle shown and the length of the diagonal.

c) tan 60°



5) Using the given equilateral triangle, calculate an exact value for:



a) sin 60°

b) cos 60°

d) sin 30°

e) cos 30°

f) tan 30°



