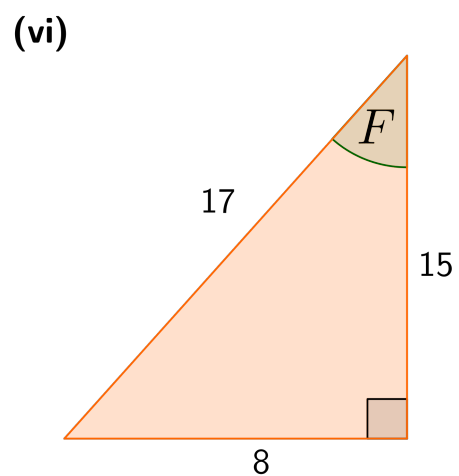
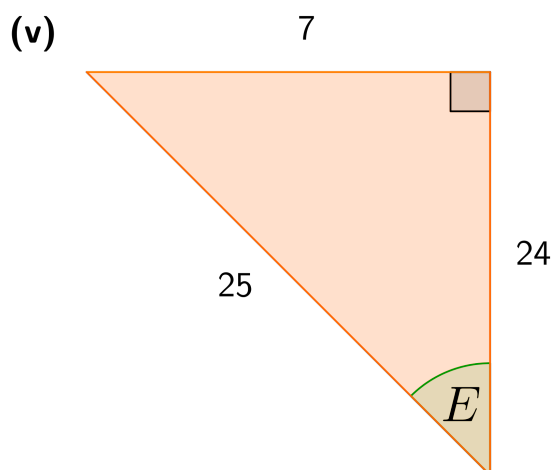
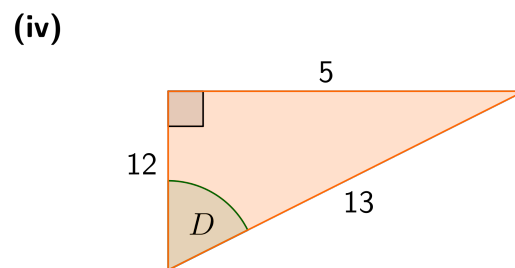
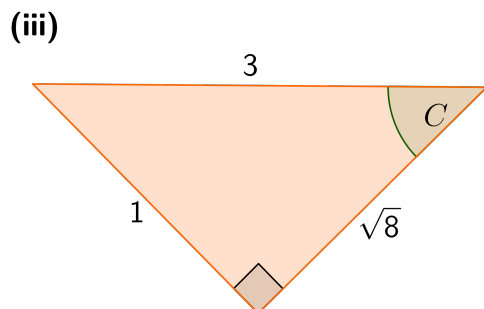
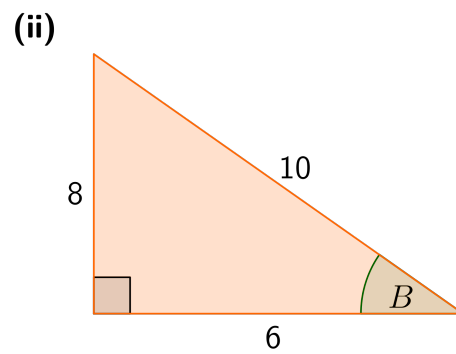
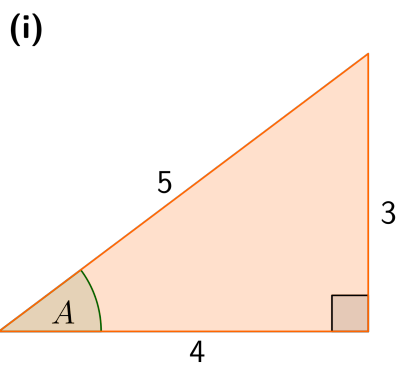
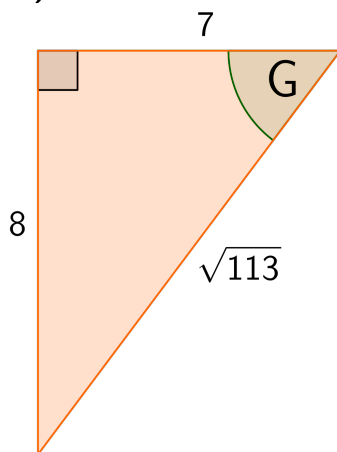


Sine, Cosine and Tangent (a)

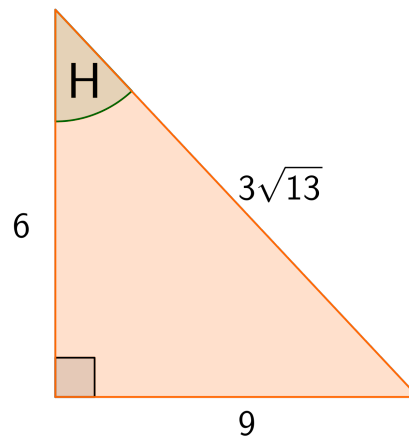
1. Find the sin, cos and tan of the unknown angles in the following right-angled triangles.



(vii)

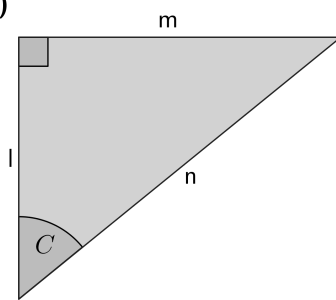


(viii)

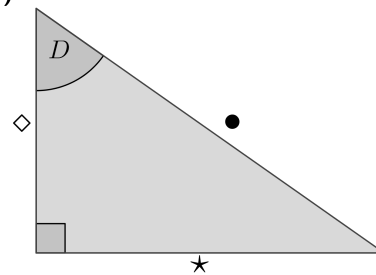


2. Find the sin, cos and tan of the angles labelled C and D in the following right-angled triangle.

(i)



(ii)



3. Are the following statements true or false in relation to the angles labelled A and B in the following diagram.

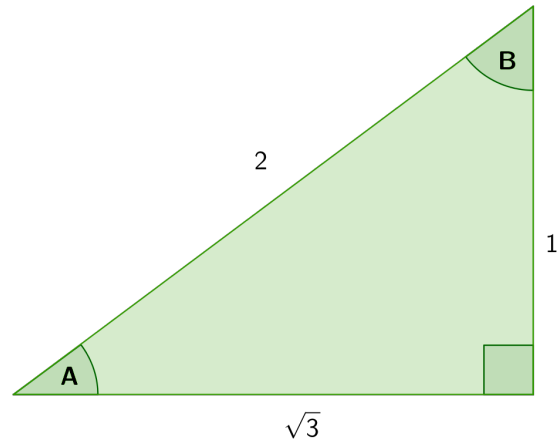
(i) $\tan A = 1/\sqrt{3}$

(ii) $\sin B = 1/2$

(iii) $\cos A = \sin B$

(iv) $\sin A = \cos B$

(v) $\tan A = \tan B$



4. (i) Using the theorem of Pythagoras, express y in terms of x .
(ii) Hence, what is the sin, cos and tan of angle E .
(iii) What are the dimensions of the triangle when $x = 1$ and $x = 10$? Does this change the answer from (ii)?

