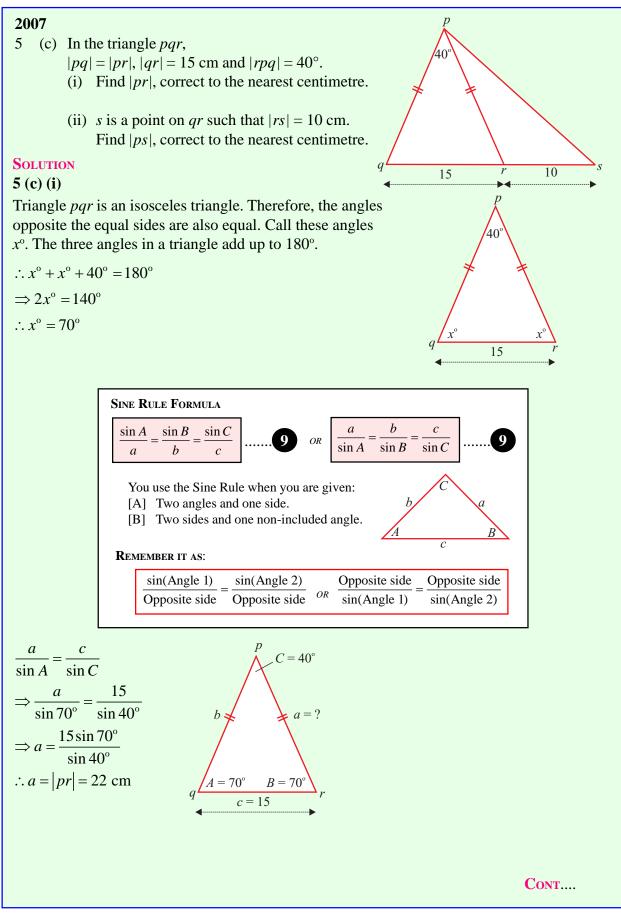
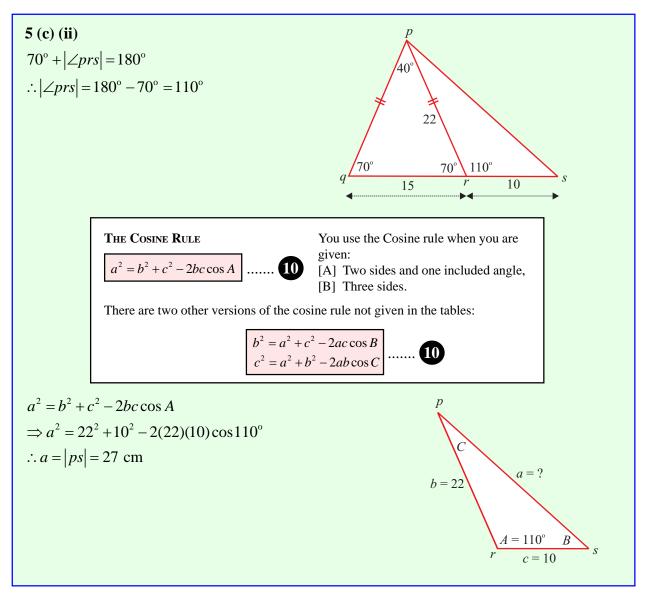
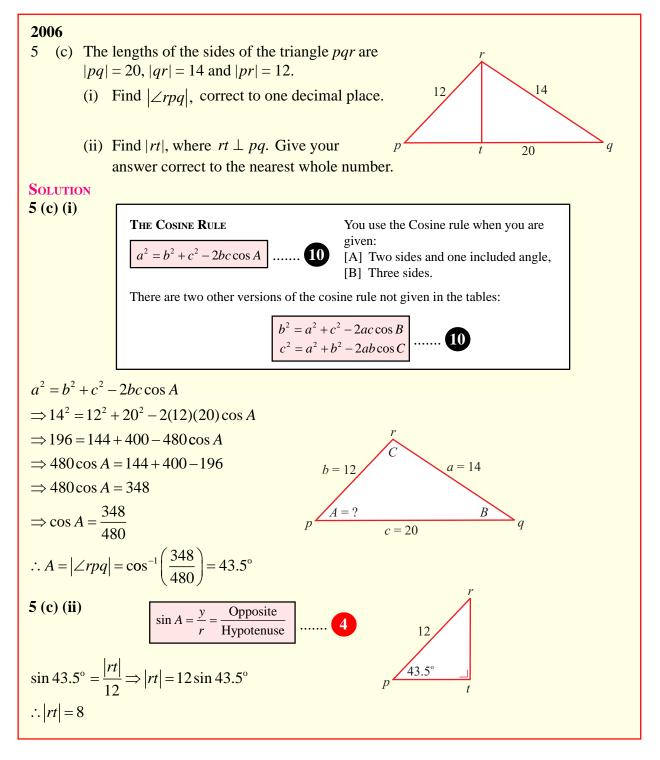
# THGONOMETRY (Q 5, PAPER 2)

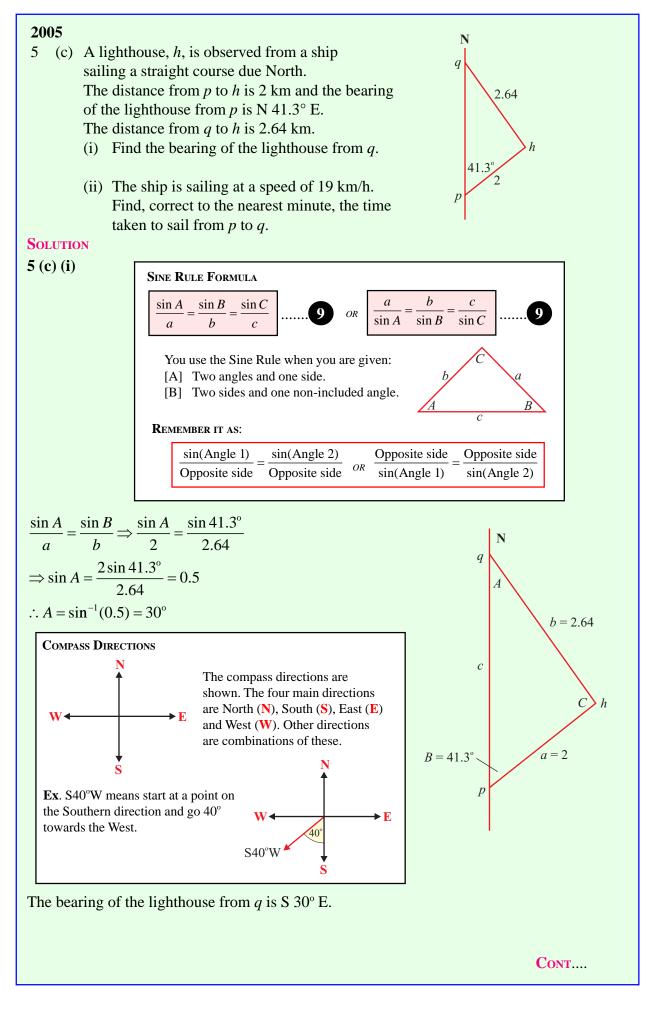
## LESSON NO. 6: MORE DIFFICULT TRIANGLES

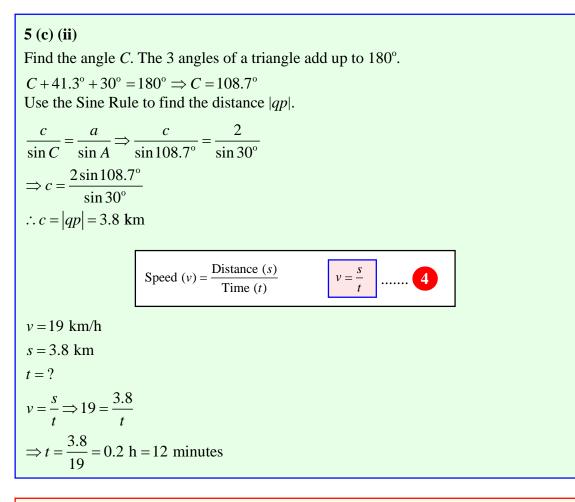


(© Tony Kelly & Kieran Mills)

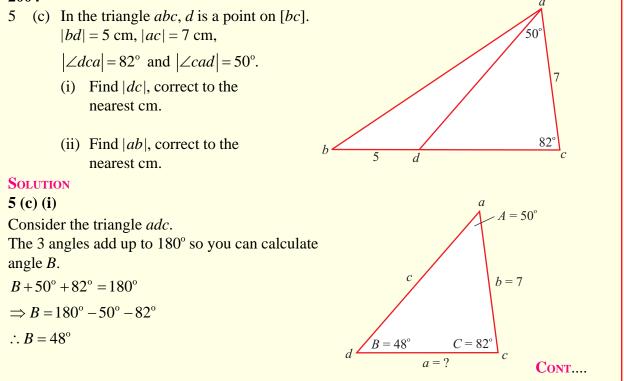


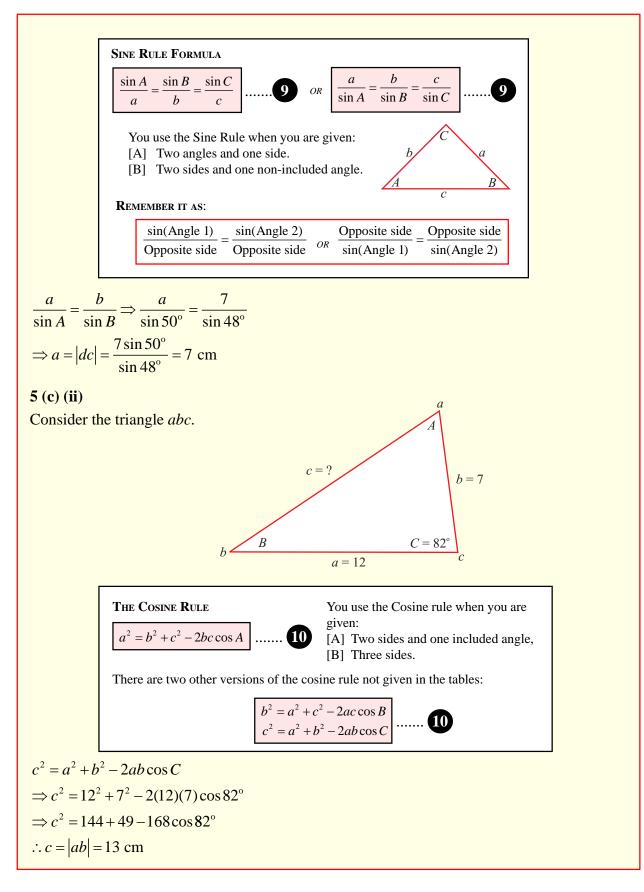


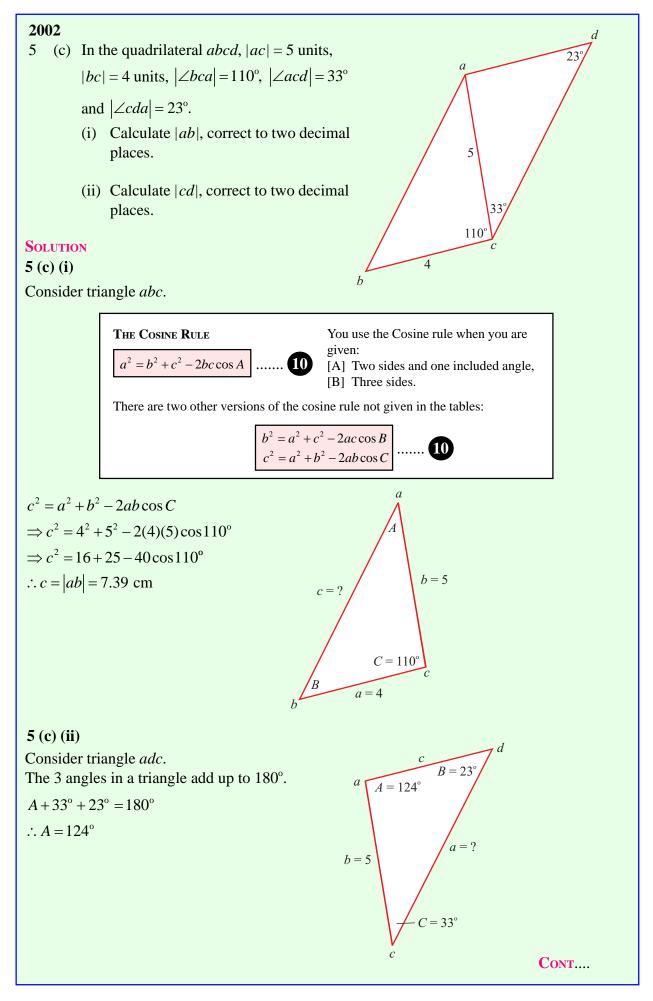


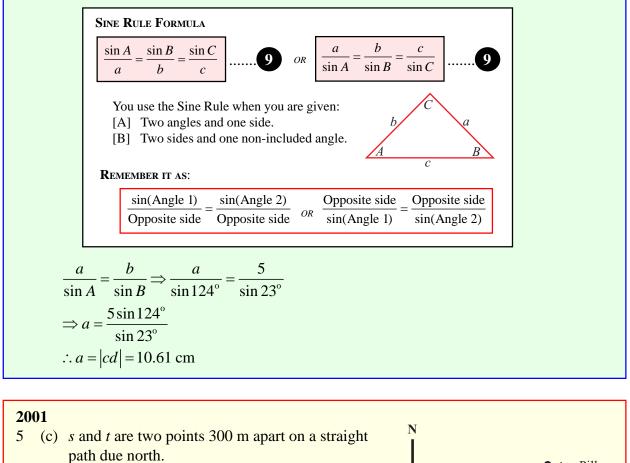


## 2004









From *s* the bearing of a pillar is N40°E.

From *t* the bearing of the pillar is N70 $^{\circ}$ E.

- (i) Show that the distance from t to the pillar is 386 m, correct to the nearest metre.
- (ii) Find the shortest distance from the path to the pillar, correct to the nearest metre.

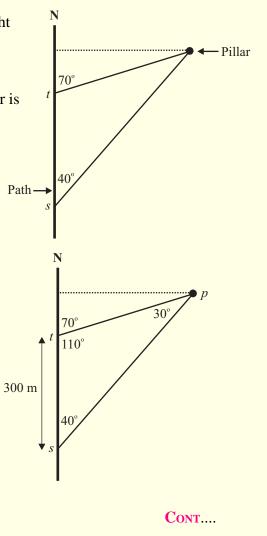
### SOLUTION

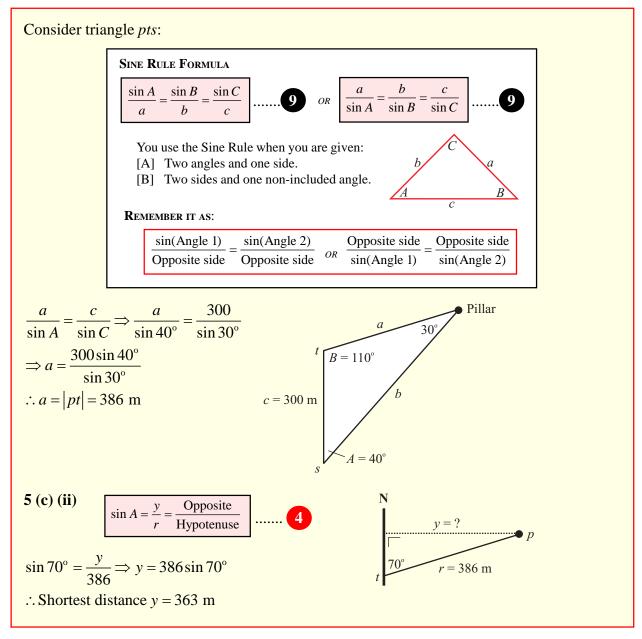
### 5 (c) (i)

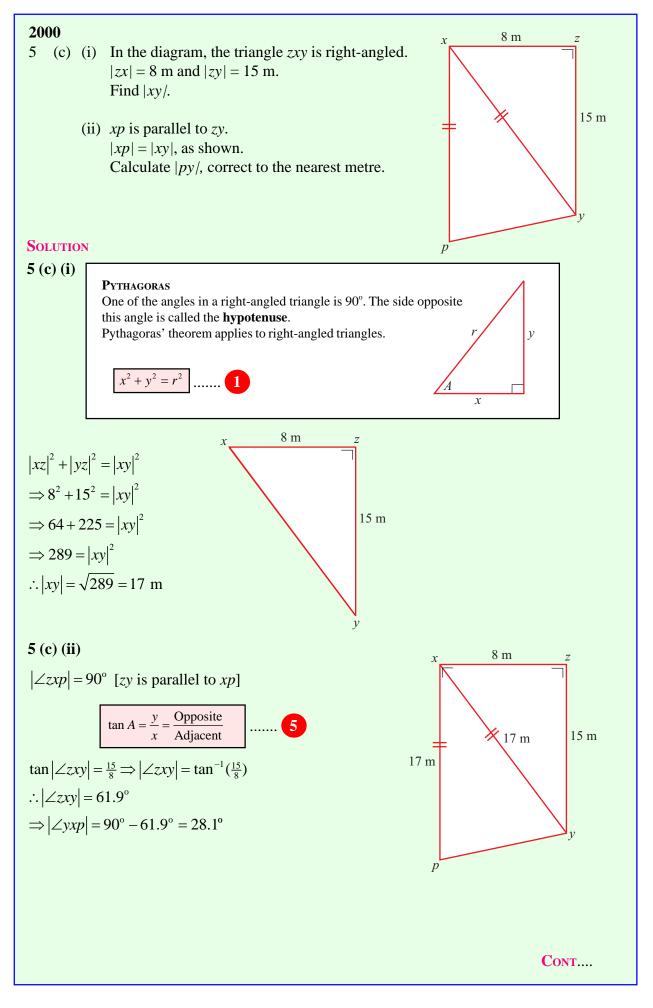
Call the pillar *p*.

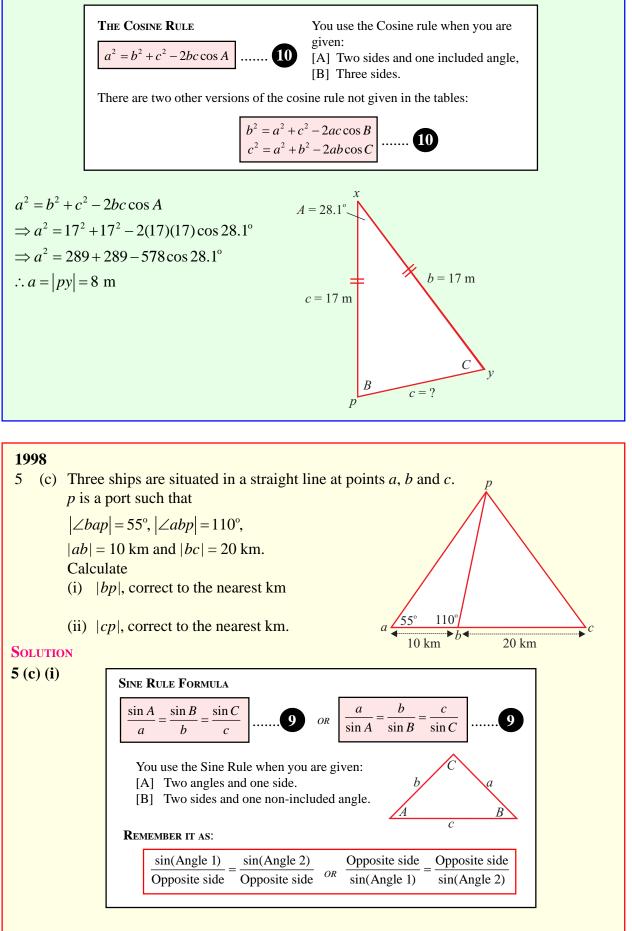
 $|\angle pts| = 110^{\circ}$  [Straight angle]

 $|\angle tps| = 30^\circ$  [3 angles of a triangle add up to 180°]









Сомт....

