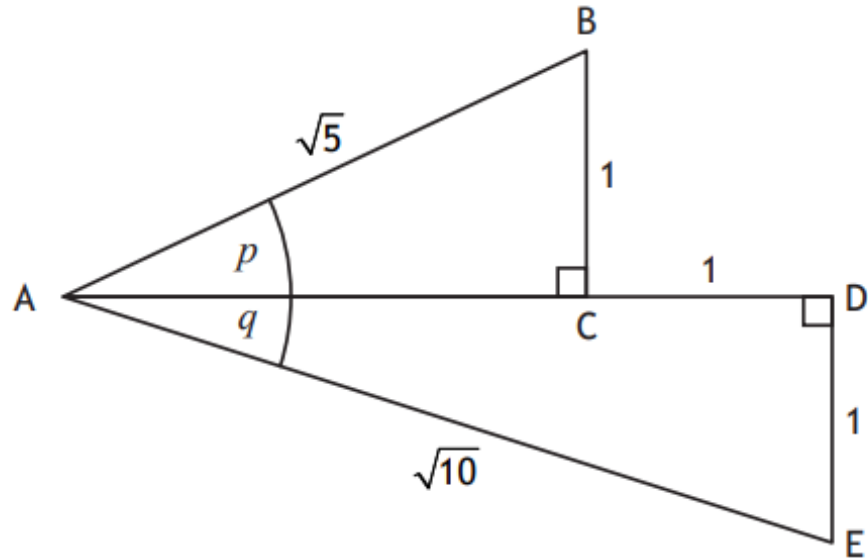


## 2019 P1 Q13

13. Triangles ABC and ADE are both right angled.  
 Angles  $p$  and  $q$  are as shown in the diagram.



- (a) Determine the value of
- (i)  $\cos p$
  - (ii)  $\cos q$ .
- (b) Hence determine the value of  $\sin(p + q)$ .

## Answers

(a) (i)  $\frac{2}{\sqrt{5}}$  (ii)  $\frac{3}{\sqrt{10}}$  (b)  $\frac{1}{\sqrt{2}}$