projectmaths.com.au

## Want more revision exercises? Get MathsFit for \$2.95/topic - New from projectmaths



\* These solutions have been provided by projectmaths and are not supplied or endorsed by BOSTES.

## **Board of Studies: Notes from the Marking Centre**

## **HSC Worked Solutions**

(a)(i) This part was generally done well by most candidates.

Common problems were:

- using an incorrect formula for the cosine rule
- incorrectly substituting into the correct formula
- attempting to find cos A using right triangle trigonometry.

(a)(ii) In better responses, candidates used the results from (a)(i), formed a right-angled triangle and used Pythagoras's Theorem to obtain the third side, allowing them to find the exact value of  $\sin A$ .

Common problems were:

- using an incorrect formula for area
- correctly finding the exact value of sin A as  $\frac{\sqrt{15}}{8}$  and then using this value as angle A in the area of a triangle formula
- finding the value of angle A and sin A using the calculator and giving an approximation for the area of the triangle
- not being able to find the exact value of sin A
- interpreting an exact value to mean 'round off to the nearest whole number'.