



(i) $\frac{\sqrt{39}}{8}$

Angle B = ?

$\cos B = \frac{5}{8} \approx 0.625$

Angle B = 51.31°

(ii)

Angle B + C = 90°

51.31° + Angle C = 90°

Angle C = 90 - 51.30

Angle C = 38.69°

(iii)

$|AC|^2 + 5^2 = 8^2$

$|AC|^2 = 64 - 25$

$|AC|^2 = 39$

$AC = \sqrt{39}$

$AC = 6.25$