

Chapter 2 - Special Right Triangle Review

Find the value of x and y in each of the following triangles.

a)

$3.2\sqrt{3} = x$

$x = \underline{3.2\sqrt{3} \text{ m}}$

$y = \underline{6.4 \text{ m}}$

b)

$\frac{5\sqrt{2} \text{ cm}}{2} = x$

$\frac{5 \text{ cm}}{\sqrt{2}} = \frac{x\sqrt{2}}{\sqrt{2}}$

$x = \frac{5 \cdot \sqrt{2}}{\sqrt{2} \cdot \sqrt{2}} = \frac{5\sqrt{2}}{2}$

$y = \frac{5\sqrt{2}}{2} \text{ cm}$

$x = \underline{\frac{5\sqrt{2}}{2} \text{ cm}}$

$y = \underline{\frac{5\sqrt{2}}{2} \text{ cm}}$

c)

$\frac{x\sqrt{3} = 4 \text{ cm}}{\sqrt{3} \sqrt{3}}$

$x = \frac{4 \cdot \sqrt{3}}{\sqrt{3} \cdot \sqrt{3}} = \frac{4\sqrt{3}}{3}$

$x = \frac{4\sqrt{3}}{3} \text{ cm}$

$y = \frac{8\sqrt{3}}{3} \text{ cm}$

$x = \underline{\frac{4\sqrt{3}}{3} \text{ cm}}$

$y = \underline{\frac{8\sqrt{3}}{3} \text{ cm}}$