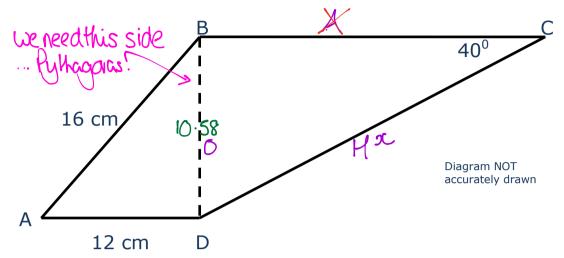


The diagram shows a quadrilateral ABCD.



AB = 16 cm. AD = 12 cm. Angle BCD = 40° . Angle ADB = angle CBD = 90° .

Calculate the length of CD. Give your answer correct to 3 significant figures.

$$BD^{2} = |6^{2} - |2^{2}$$

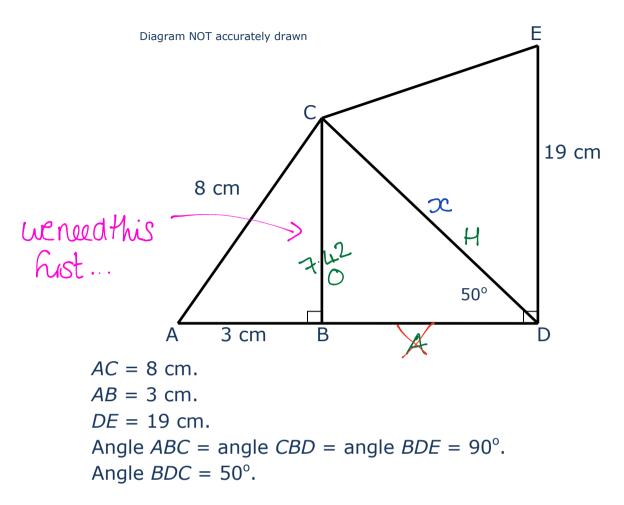
= |12
BD = $\sqrt{112}$
= |0.583()524cm

$$Sin 40 = \frac{10.58}{x}$$

 $x = 10.58 \div sin 40$
leave the full value = 16.45955809
of BD in your
calculator... = 16.5an

(5)





a) Calculate the length of *CD*. Give your answer correct to 3 significant figures.

$$CB^{2} = 8^{2} - 3^{2}$$

$$= 55$$

$$CB = \sqrt{55}$$

$$= 7 \cdot 416198487 \text{cm}$$

$$SVH C H T A$$

$$Sun 50^{2} = \frac{7.42}{2c}$$

$$CH T A$$

$$Sun 50^{2} = \frac{7.42}{2c}$$

$$C = 7 \cdot 42 = \frac{5050}{2c}$$

$$C = 9 \cdot 686122087$$

$$C = 9 \cdot 69 \text{cm}$$