

Chapter 2: Pythagoras' theorem and surds

Chapter pre-test

Name _____

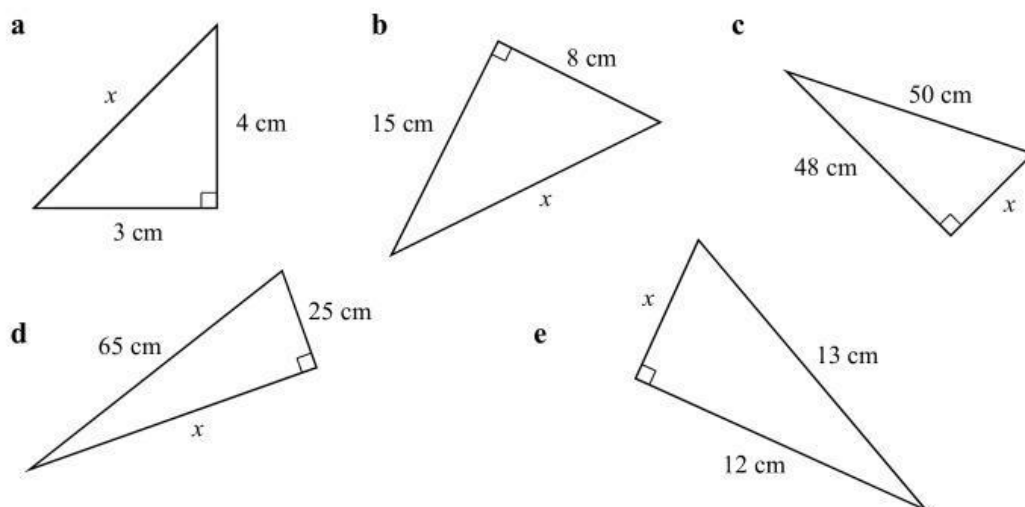
1 Calculate these squares without using your calculator.

a 6^2 b 8^2 c 13^2 d 20^2 e 30^2 f 50^2

2 Calculate the positive value of these square roots without using your calculator.

a $\sqrt{4}$ b $\sqrt{81}$ c $\sqrt{16}$ d $\sqrt{49}$ e $\sqrt{196}$ f $\sqrt{625}$

3 Use Pythagoras' theorem to find the length of the unknown side.



4 Round each of these numbers to three decimal places.

a 2.32419 b 14.0278212 c 37.9155

5 Find the length of the unknown sides in each of the following diagrams.

