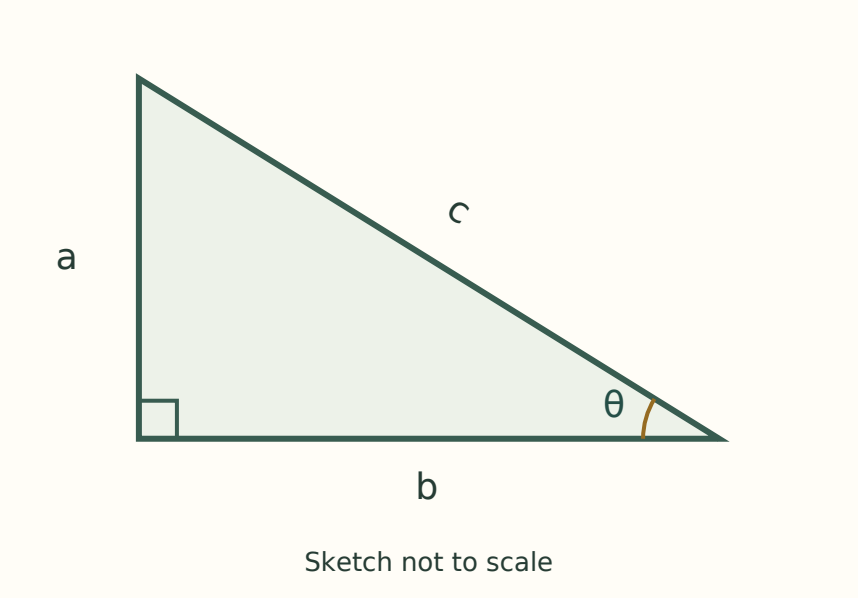
Opposite, adjacent and hypotenuse

6 questions | 10 marks

Equivalent correct methods earn the corresponding marks.

1. For θ in the sketch, name the opposite side. [1 mark]

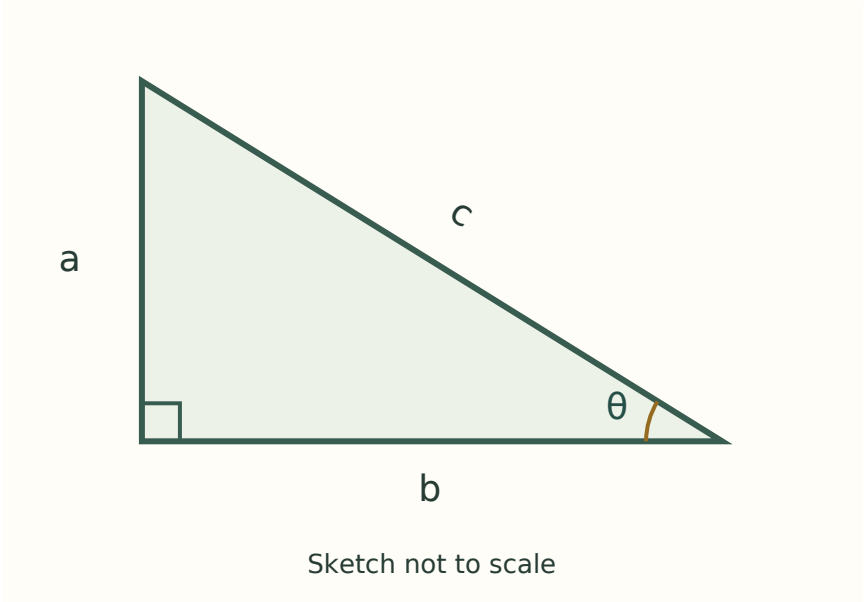


Sketch not to scale

Side a is across from θ.

Answer: a

2. For θ in the sketch, name the adjacent side. [1 mark]

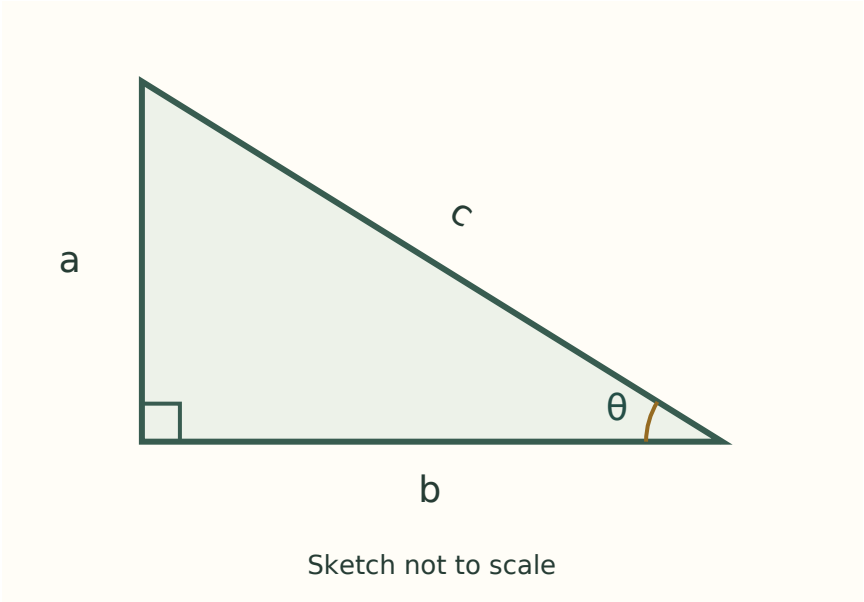


Sketch not to scale

Side b touches θ and is not the hypotenuse.

Answer: b

3. For θ in the sketch, name the hypotenuse. [1 mark]

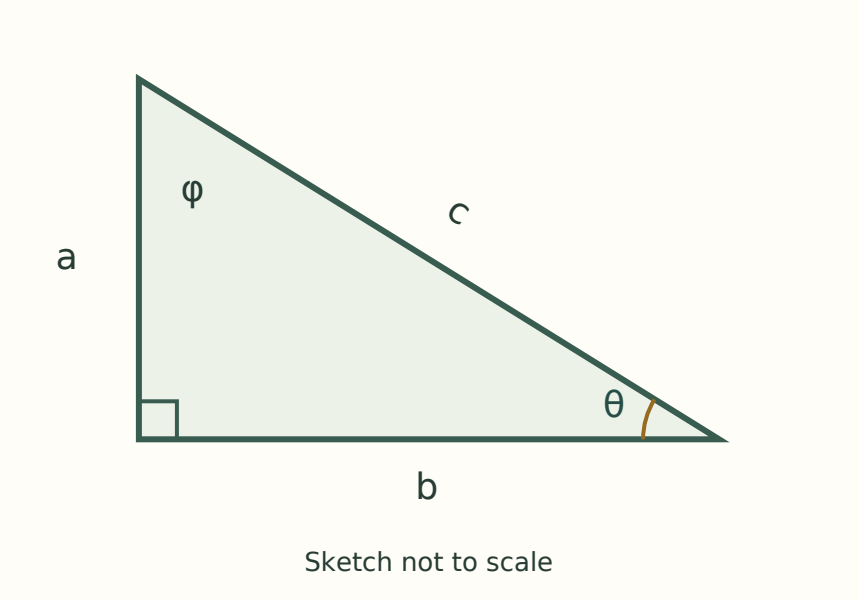


Sketch not to scale

Side c faces the marked right angle.

Answer: c

4. Now use upper angle ϕ. Name its opposite and adjacent sides. [2 marks]



Sketch not to scale

Changing the reference angle swaps the two shorter-side labels.

Answer: Opposite b; adjacent a

5. Triangle ABC is right-angled at B. For angle A, name the hypotenuse, opposite side and adjacent side. [3 marks]

AC faces the right angle B.

BC does not touch A; AB does touch A.

Answer: Hypotenuse AC; opposite BC; adjacent AB

6. A right triangle is rotated on the page. Does its hypotenuse change? Explain. [2 marks]

Rotation does not change any angle.

The same side remains opposite the right angle.

Answer: No