



Does it have a right angle?

yes

no

Are there any angles shown?

Do you know a matching pair?
(an angle and its opposite side)

yes

no

yes

no



Trig

Pythagoras' Theorem

$$a^2 + b^2 = c^2$$

or

$$c^2 - b^2 = a^2$$

sine rule

Are you finding an angle?

cosine rule

Are you finding an angle?

yes

no

yes

no

$$\frac{\sin A}{a} = \frac{\sin B}{b} = \frac{\sin C}{c}$$

$$\cos A = \frac{b^2 + c^2 - a^2}{2bc}$$

$$\frac{a}{\sin A} = \frac{b}{\sin B} = \frac{c}{\sin C}$$

$$a^2 = b^2 + c^2 - 2bc \cos A$$

AREA OF A TRIANGLE:

$$A = \frac{1}{2} ab \sin C$$

where:
 A = area of the triangle
 a & b = any 2 sides of the triangle
 C = included angle between the given sides a & b