

Trigonometry- Session 2 Worksheet

Pythagorean Theorem

1. There is a right Triangle with sides ABC. A =6cm, and C= 10cm. Find side B using the formula $a^2 + b^2 = c^2$.
2. There is a right Triangle with the sides DEF. E= 4cm and F= 5cm. Find Side D using the formula $r = \sqrt{x^2 + y^2}$
3. There is a right triangle with the sides ABC. B= 3cm, C= 7cm. Find C using the formula $\sin^2 x + \cos^2 x = 1$.

Cofunction Identities

Supplementary angles are any two angles that add up to 180° .

Complementary angles are any two angles that add up to 90° .

In this case, cofunctions are dealing with complementary angles.

$$\sin \theta = \cos(90^\circ - \theta) \quad \cos \theta = \sin(90^\circ - \theta) \quad \tan \theta = \cot(90^\circ - \theta)$$

1. Write $\cos 36^\circ$ in terms of \sin

2. Write $\sin 47^\circ$ in terms of \sin

3. Write $\tan 56^\circ$ in terms of \cot

4. Write $\cot 25^\circ$ in terms of \tan