

Calculate the value of x without drawing any right-angled triangles or using Pythagoras theorem or a calculator.

$$(a) \sin \theta = \frac{2}{5}, \cos \theta = \frac{\sqrt{7}}{5}, \tan \theta = x$$

Solution:

$$\tan \theta = \frac{\sin \theta}{\cos \theta}$$

$$x = \frac{\square}{\square}$$

$$x = \square \times \square$$

$$x = \square$$

Drag from here:

$$\frac{2}{\sqrt{7}}$$

$$\frac{2}{5}$$

$$\frac{5}{\sqrt{7}}$$

$$\frac{\sqrt{7}}{5}$$

$$\frac{2}{5}$$

