

The Pythagorean Theorem gives you:

$$5^2 + x^2 = 8^2 \Rightarrow 25 + x^2 = 64 \Rightarrow x^2 = 39 \Rightarrow x = \sqrt{39}$$

Then:

$$\tan Y = \frac{o}{a} = \frac{5}{\sqrt{39}}$$