

## Interesting Development

If I find the sum of those trig ratios squared, we have

$\sin^2 B + \cos^2 B = \left(\frac{3}{4}\right)^2 + \left(\frac{4}{5}\right)^2 = 1$ . If we continued looking at the other ratios from previous examples, we would see a pattern develop. That is

$$\sin^2 x + \cos^2 x = 1$$