

Math 2001 August 30, 2019 Homework 5

Read section p5.

1) The side opposite angle θ has length 11, and the adjacent side has length 11. Find the length of the hypotenuse, and find the value of the 6 trig functions of the angle θ .

2) Suppose that $\sin \theta = \frac{5}{7}$. Sketch a reference right triangle with this angle θ , calculate the unknown side, then find the value of the remaining 5 trig functions of θ .

3) Suppose that $\tan \theta = \frac{8}{7}$. Sketch a reference right triangle with this angle θ , calculate the unknown side, then find the value of the remaining 5 trig functions of θ .

4) Suppose that $\sec \theta = 2.1565$. Sketch a reference right triangle with this angle θ , calculate the unknown side, then find the value of the remaining 5 trig functions of θ . Approximate the values to 4 or 5 significant digits.