

Written HW16 – MATH 1540 Spring 2022

Due by 11 April for timely completion credit

Compute $\sin\left(\frac{x}{2}\right)$, $\cos\left(\frac{x}{2}\right)$, and $\tan\left(\frac{x}{2}\right)$ from the given information. In your response, identify the quadrant of the angle x , the quadrant of the angle $\frac{x}{2}$, and draw the relevant right triangle, as was done in class.

1. $\tan(x) = 3$ and $\sin(x) < 0$
2. $\cos(x) = -\frac{1}{4}$ and $\tan(x) > 0$