Draw $330°$ in standard position. The terminal side is in the fourth quadrant and the reference angle is $30°$. Use the $30° - 60° - 90°$ triangle to find the value of this function at the reference angle:

$$\sec 30° = \frac{2}{\sqrt{3}} = \frac{2}{\sqrt{3}} \cdot \frac{\sqrt{3}}{\sqrt{3}} = \frac{2\sqrt{3}}{3}$$

Use the signs of x and y in the fourth quadrant to determine the sign of secant:

$$\sec 330° = \frac{1}{x} = \frac{(+)}{(+)} = (+)$$

So: $\sec 330° = +\dfrac{2\sqrt{3}}{3}$