

Name Solutions _____ Trigonometry, Quiz 24

Find $\cos(100^\circ) + \cos(80^\circ)$

$$\cos(100^\circ) + \cos(80^\circ) = 2 \cos\left(\frac{100^\circ + 80^\circ}{2}\right) \cos\left(\frac{100^\circ - 80^\circ}{2}\right) = 2 \cos(90^\circ) \cos(10^\circ) = 2 \cdot 0 \cdot \text{??} = 0$$