

Precalculus

Name: Nathan Kiefer
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Chapter 7 Partner Quiz

1. (7 pts) Prove that the following equation is an identity:

$$\frac{1 + \sin x + \cos x}{1 + \sin x - \cos x} \cdot \frac{1 + \cos x}{\sin x} = \frac{(1 + \cos x)(1 + \sin x - \cos x)}{\sin x + \sin^2 + (\cos \cdot \sin)} = 1 + \sin x - \cos x + \cos x + (\cos \cdot \sin) - \cos^2$$

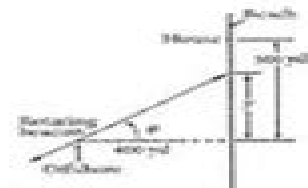
$$\sin x + \sin^2 + (\cos \cdot \sin) = 1 + \sin x + (\cos \cdot \sin) - \cos^2$$

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

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

$$\frac{(1 + \cos x) \left(\frac{1 + \cos x}{\sin x} \right)}{(1 + \sin x) \cdot \sin x} = \frac{1 + \cos x}{\sin x} \cdot \frac{1 + \cos x}{1 + \sin x + \cos x + (\cos \cdot \sin)} = \frac{1 + \cos x}{\sin x}$$

2. The given figure shows a rotating beacon on a lighthouse 400 yd off shore. The beam of light shines out of both sides of the beacon, making a spot of light that moves along the beach with a displacement y , measured in yards, from the point on the beach that is closest to the lighthouse.



- a. (2 pts) Write an equation for y in terms of θ .
- $$\tan(\theta) = \frac{y}{400} \quad \boxed{400 \cdot \tan(\theta) = y}$$
- b. (2 pts) The beacon rotates with an angular velocity of 6 deg/s. Let t be the time, in seconds, since the beam was perpendicular to the beach (that is, $y = 0$). By appropriate substitution, write an equation for y as a function of t .
- $$400 \cdot \tan(6t) = y$$
- c. (6 pts) A house on the beach is at a displacement $y = 500$ yd. Find algebraically the first four positive values of t when the spot of light illuminates the house.

$$\frac{500}{400} = \frac{400 \cdot \tan(6t)}{400} \quad 1.25 = \tan(6t)$$

$$\arctan(1.25) = 6t \quad 0.1107 \text{ rad} = 6t$$

$$t = 0.01845 \text{ rad} = 1.06^\circ$$

$$t = 8.56, 38.56, 68.56, 98.56$$

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