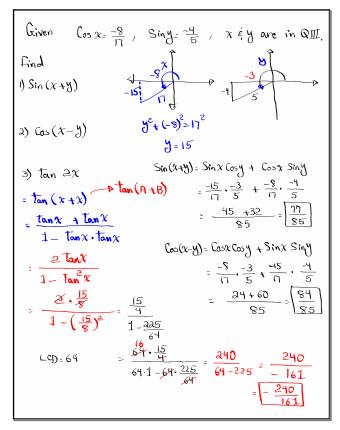


Feb 19-8:47 AM



Jan 18-8:02 AM

$$S_{in} \chi = \frac{3}{3}, \quad \chi \text{ is in QII}$$

$$S_{in} \chi = \frac{1}{3}, \quad y \text{ is in QIV}$$

$$S_{in} \chi = \frac{1}{3}, \quad y \text{ is in QIV}$$

$$S_{in} \chi = \frac{1}{3}, \quad y \text{ is in QIV}$$

$$S_{in} \chi = \frac{1}{3}, \quad y \text{ is in QIV}$$

$$S_{in} \chi = \frac{1}{3}, \quad y \text{ is in QIV}$$

$$S_{in} \chi = \frac{1}{3}, \quad y \text{ is in QIV}$$

$$S_{in} \chi = \frac{1}{3}, \quad y \text{ is in QIV}$$

$$S_{in} \chi = \frac{1}{3}, \quad y \text{ is in QIV}$$

$$S_{in} \chi = \frac{1}{3}, \quad y \text{ is in QIV}$$

$$S_{in} \chi = \frac{1}{3}, \quad y \text{ is in QIV}$$

$$S_{in} \chi = \frac{1}{3}, \quad y \text{ is in QIV}$$

$$S_{in} \chi = \frac{1}{3}, \quad y \text{ is in QIV}$$

$$S_{in} \chi = \frac{1}{3}, \quad y \text{ is in QIV}$$

$$S_{in} \chi = \frac{1}{3}, \quad y \text{ is in QIV}$$

$$S_{in} \chi = \frac{1}{3}, \quad y \text{ is in QIV}$$

$$S_{in} \chi = \frac{1}{3}, \quad y \text{ is in QIV}$$

$$S_{in} \chi = \frac{1}{3}, \quad y \text{ is in QIV}$$

$$S_{in} \chi = \frac{1}{3}, \quad y \text{ is in QIV}$$

$$S_{in} \chi = \frac{1}{3}, \quad y \text{ is in QIV}$$

$$S_{in} \chi = \frac{1}{3}, \quad y \text{ is in QIV}$$

$$S_{in} \chi = \frac{1}{3}, \quad y \text{ is in QIV}$$

$$S_{in} \chi = \frac{1}{3}, \quad y \text{ is in QIV}$$

$$S_{in} \chi = \frac{1}{3}, \quad y \text{ is in QIV}$$

$$S_{in} \chi = \frac{1}{3}, \quad y \text{ is in QIV}$$

$$S_{in} \chi = \frac{1}{3}, \quad y \text{ is in QIV}$$

$$S_{in} \chi = \frac{1}{3}, \quad y \text{ is in QIV}$$

$$S_{in} \chi = \frac{1}{3}, \quad y \text{ is in QIV}$$

$$S_{in} \chi = \frac{1}{3}, \quad y \text{ is in QIV}$$

$$S_{in} \chi = \frac{1}{3}, \quad y \text{ is in QIV}$$

$$S_{in} \chi = \frac{1}{3}, \quad y \text{ is in QIV}$$

$$S_{in} \chi = \frac{1}{3}, \quad y \text{ is in QIV}$$

$$S_{in} \chi = \frac{1}{3}, \quad y \text{ is in QIV}$$

$$S_{in} \chi = \frac{1}{3}, \quad y \text{ is in QIV}$$

$$S_{in} \chi = \frac{1}{3}, \quad y \text{ is in QIV}$$

$$S_{in} \chi = \frac{1}{3}, \quad y \text{ is in QIV}$$

$$S_{in} \chi = \frac{1}{3}, \quad y \text{ is in QIV}$$

$$S_{in} \chi = \frac{1}{3}, \quad y \text{ is in QIV}$$

$$S_{in} \chi = \frac{1}{3}, \quad y \text{ is in QIV}$$

$$S_{in} \chi = \frac{1}{3}, \quad y \text{ is in QIV}$$

$$S_{in} \chi = \frac{1}{3}, \quad y \text{ is in QIV}$$

$$S_{in} \chi = \frac{1}{3}, \quad y \text{ is in QIV}$$

$$S_{in} \chi = \frac{1}{3}, \quad y \text{ is in QIV}$$

$$S_{in} \chi = \frac{1}{3}, \quad y \text{ is in QIV}$$

$$S_{in} \chi = \frac{1}{3}, \quad y \text{ is in QIV}$$

$$S_{in} \chi = \frac{1}{3}, \quad y \text{ is in QIV}$$

$$S_{in} \chi = \frac{1}{3}, \quad y \text{ is in QIV}$$

$$S_{in} \chi = \frac{1}{3}, \quad y \text{ is in QIV}$$

$$S_{in} \chi = \frac{1}{3}, \quad y \text{ is in QIV}$$

$$S_{in} \chi = \frac{1}{3}, \quad y \text{ is in QIV}$$

$$S_{in} \chi = \frac{1}{3}, \quad y \text{ is in QIV}$$

$$S_{i$$

Jan 18-8:17 AM

Double - Angle

Sin 2A = 2 Sin A Cos A

Cos 2A = Cos² A - Sin² A = 2Cos² A - 1 = 1 - 2 Sin² A

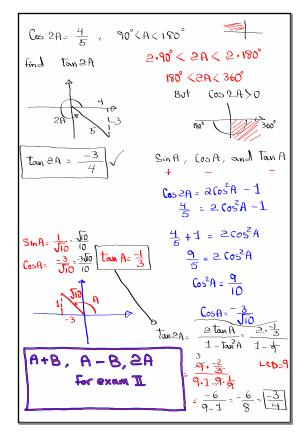
$$tan 2A = \frac{2 tan A}{1 - tan² A}$$

Cos 2A = 2 Sin A Cos A = 2 · - 4 · 3 · 5 = -24 / 25

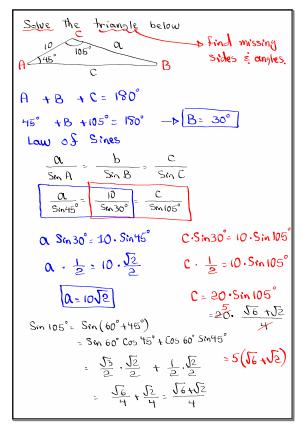
 $tan 2A = \frac{2 tan A}{1 - tan² A}$ 

Cos 2A = 2 Cos² A - 1 = 2  $\left(\frac{3}{5}\right)^2 - 1 = \frac{18}{25} - \frac{25}{25} = \frac{-1}{25}$ 
 $tan 2A = \frac{2 tan A}{1 - tan² A} = \frac{2 \cdot - \frac{4}{3}}{1 - \left(\frac{4}{3}\right)^2} = \frac{-8}{1 - \frac{16}{9}}$ 
 $\frac{3}{9 \cdot 1 - 9 \cdot \frac{16}{9}} = \frac{-24}{9 - 16} = \frac{-24}{-7} = \frac{24}{21}$ 

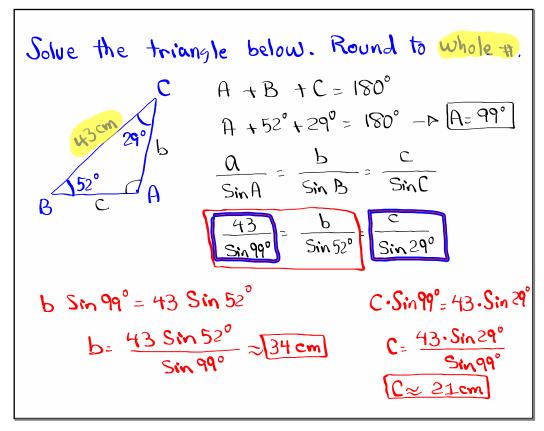
Jan 18-8:35 AM



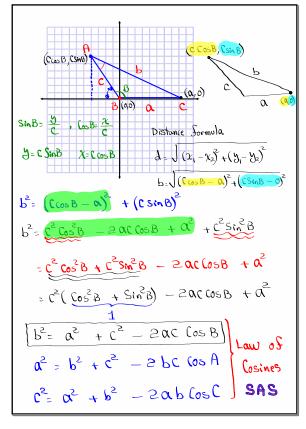
Jan 18-8:46 AM



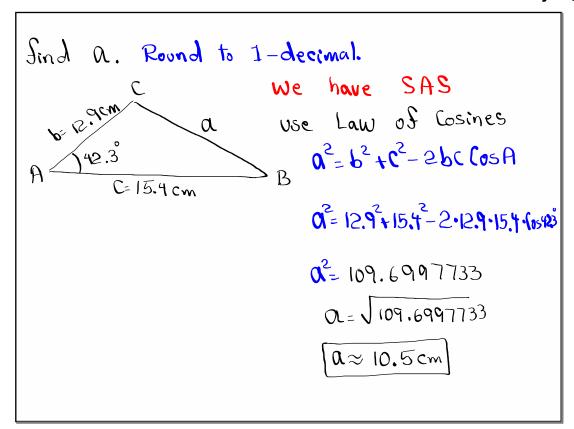
Jan 18-9:01 AM



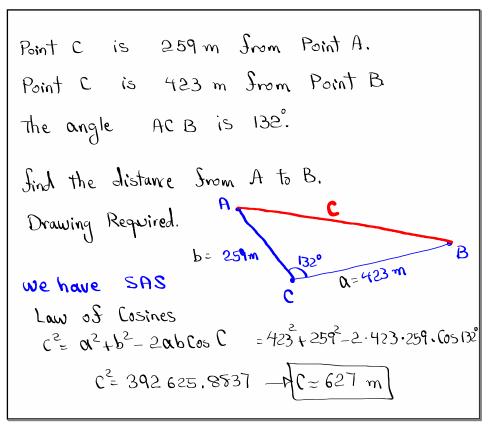
Jan 18-9:10 AM



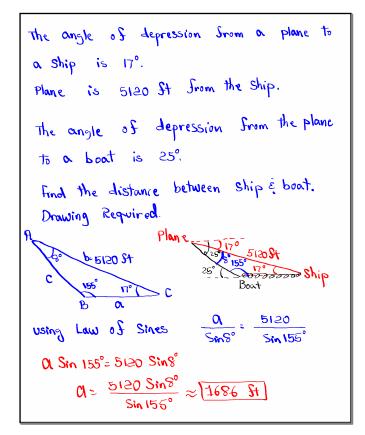
Jan 18-9:33 AM



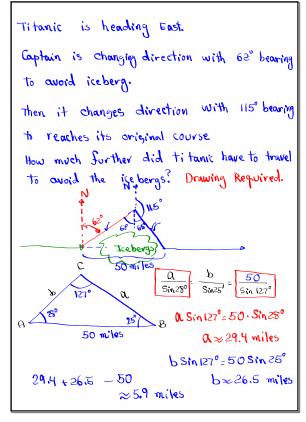
Jan 18-9:46 AM



Jan 18-9:51 AM



Jan 18-9:59 AM



Jan 18-10:10 AM

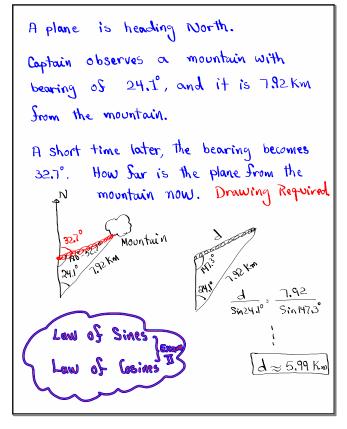
To measure the length of a tunnel, the Surveyor pick a point and measures to each end of the tunnel.

Suppose the angle between the lines from that point is 110°. Find length of the tunnel if the point is 3800 m and 2900 m from the end of tunnel.

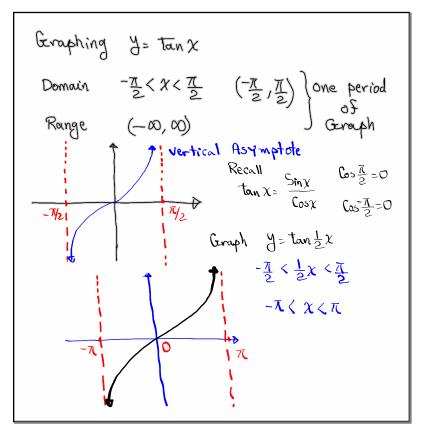
L=2900 +3800 - (05110° 2000 m)

To the nearest 100 5500 m

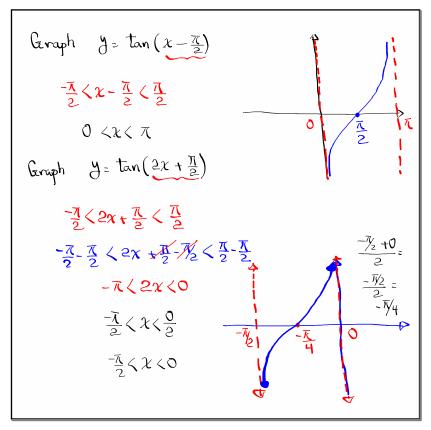
Jan 18-10:27 AM



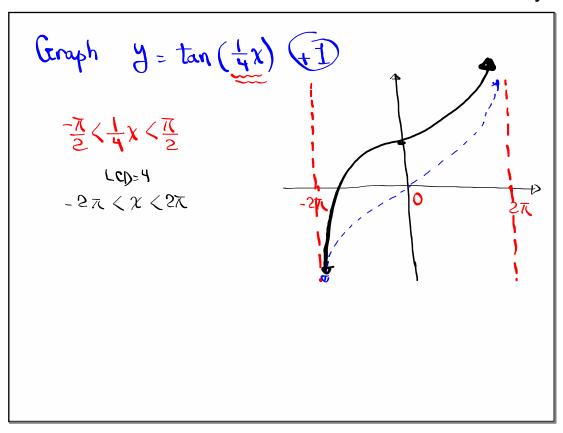
Jan 18-10:35 AM



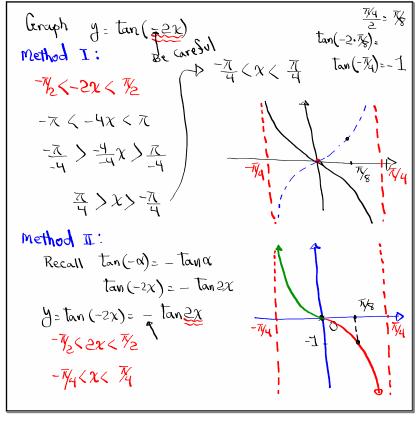
Jan 18-11:04 AM



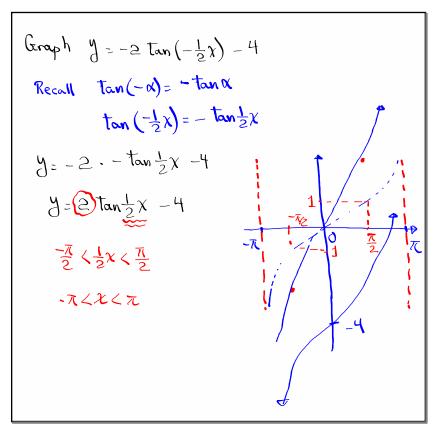
Jan 18-11:09 AM



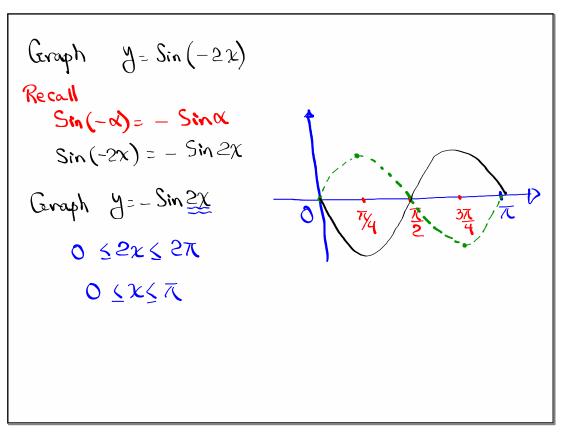
Jan 18-11:17 AM

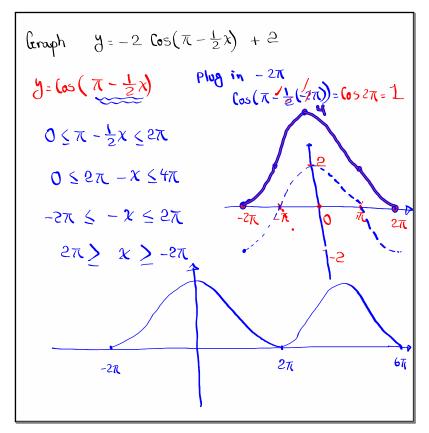


Jan 18-11:21 AM

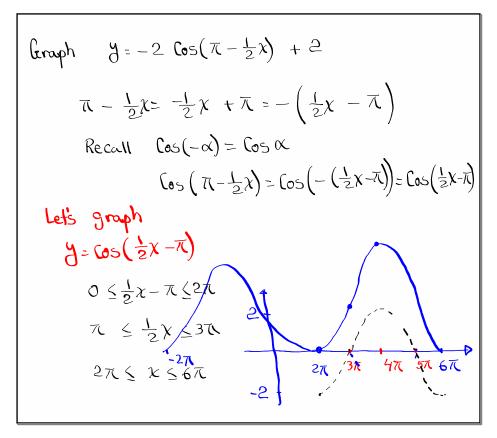


Jan 18-11:33 AM

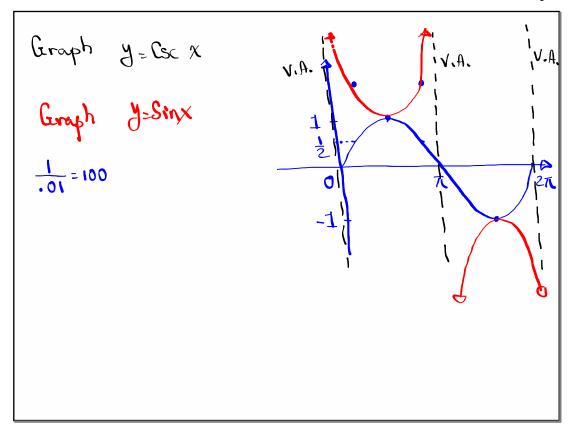




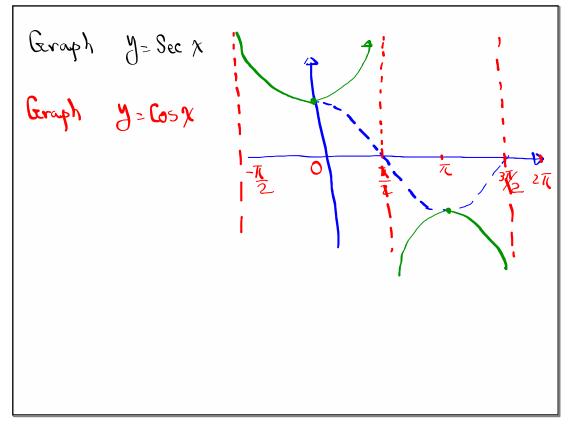
Jan 18-11:43 AM



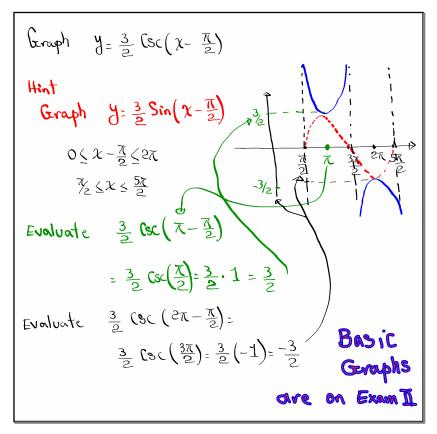
Jan 18-11:55 AM



Jan 18-12:03 PM



Jan 18-12:07 PM



Jan 18-12:14 PM