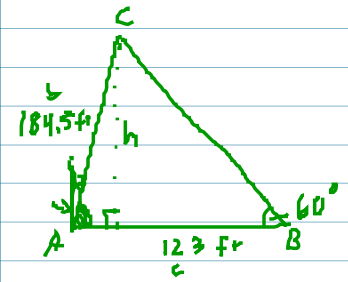
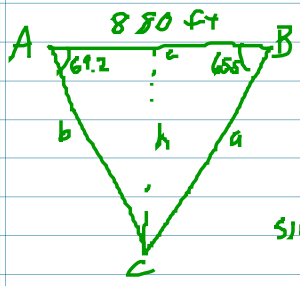


$\frac{\sin(C)}{123} = \frac{\sin(60^\circ)}{184.5}$ $m\angle C = 35.264^\circ$

$m\angle A = 84.736^\circ$

$\sin(84.736^\circ) = \frac{h}{184.5}$ $h = 183.722 ft$



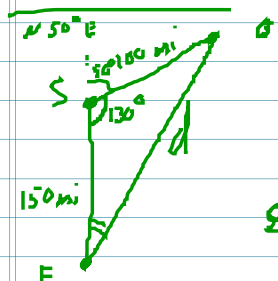
$m\angle C = 45.3^\circ$

$\frac{a}{\sin(69.2^\circ)} = \frac{850}{\sin(45.3^\circ)}$ $a = 1157.354 ft$

$\sin(B) = \frac{h}{a}$ $h = 1053.147 ft$

$\frac{b}{\sin(65.5^\circ)} = \frac{850}{\sin(45.3^\circ)}$ $b = 1126.571 ft$

$\sin(A) = \frac{h}{b}$ $h = 1053.147 ft$



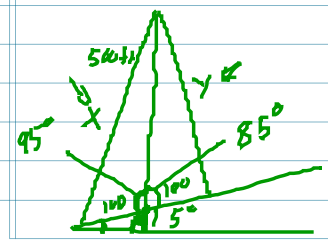
$d^2 = 100^2 + 150^2 - 2(100)(150)\cos(130^\circ)$

$= 51783.62829$

$d = 227.56 mi$

$\frac{\sin(F)}{100} = \frac{\sin(130^\circ)}{227.56011641}$ $m\angle F = 19.6719^\circ$

$N\ 19.7^\circ E$



$x^2 = 100^2 + 500^2 - 2(100)(500)\cos(95^\circ)$

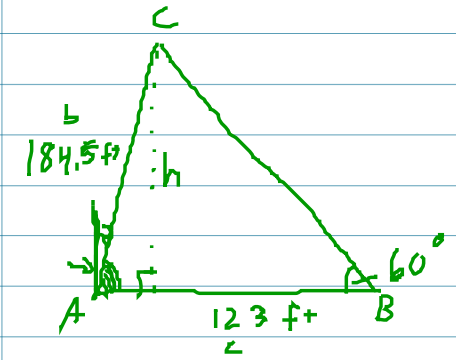
$= 268715.5743$

$x = 518.378 ft$

$y^2 = 100^2 + 500^2 - 2(100)(500)\cos(85^\circ)$

$= 251284.4257$

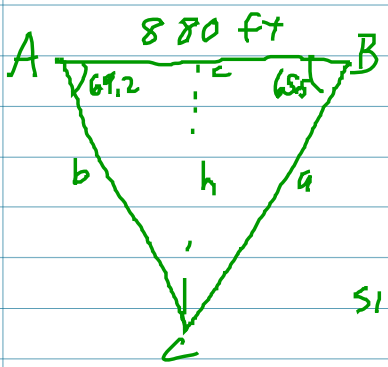
$y = 501.283 ft$



$\frac{\sin(C)}{123} = \frac{\sin(60^\circ)}{184.5}$ $\quad m\angle C = 35.264^\circ$

$m\angle A = 84.736^\circ$

$\sin(84.736^\circ) = \frac{h}{184.5}$ $\quad h = 183.722 ft$



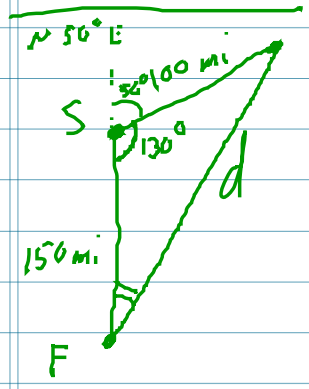
$m\angle C = 45.3^\circ$

$\frac{a}{\sin(69.2^\circ)} = \frac{880}{\sin(45.3^\circ)}$ $\quad a = 1157.354 ft$

$\sin(B) = \frac{h}{a}$ $\quad h = 1053.147 ft$

$\frac{b}{\sin(65.5^\circ)} = \frac{880}{\sin(45.3^\circ)}$ $\quad b = 1126.571 ft$

$\sin(A) = \frac{h}{b}$ $\quad h = 1053.147 ft$



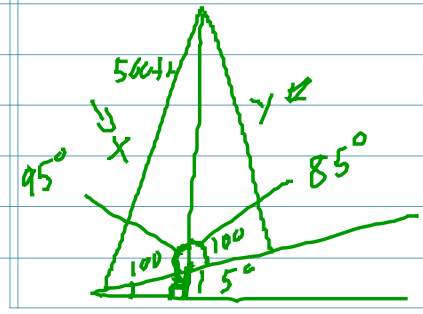
$d^2 = 100^2 + 150^2 - 2(100)(150)\cos(130^\circ)$

$= 51,783.62829$

$d = 227.56 mi$

$\frac{\sin(F)}{100} = \frac{\sin(130^\circ)}{227.56011641}$ $\quad m\angle F = 19.6719^\circ$

$N\ 19.7^\circ E$



$x^2 = 100^2 + 500^2 - 2(100)(500)\cos(95^\circ)$

$= 268715.5743$

$x = 518.378 ft$

$y^2 = 100^2 + 500^2 - 2(100)(500)\cos(85^\circ)$

$= 251284.4257$

$y = 501.283 ft$