Each problem is worth 5 points. For full credit indicate clearly how you reached your answer.

- 1. a) Convert 120° to radians.
- b) Convert π/12 radians to degrees.

Mations to Degrees 1800

Pegrees to Jegrees

120° = Tradani 120° = 120° - 27 180° or 120° - 27 3

Great!

10 PM = 180 12 = 180 10 M = 150

 If a right triangle has an angle of measure 20° and the length of the side opposite it is 8 inches, find the lengths of the other sides (accurate to 2 decimal places).

483 + 69 = y= V547.11 = 5y= y= 23.39

X Tun 70 = X Han 70 = X x= 21.98 y= 23.39

y = 23.39Sin(20) = $\frac{8}{y}$ $y \le \sin(20) = 8$ $y = \frac{8}{\sin(20)} = 23.39$ or could find it

(20) = 23.39

could find it Excellent!

this way That checking

my answer

X = 21.48