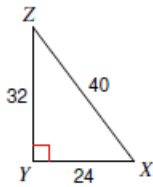


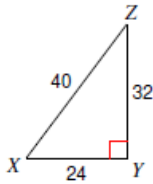
GNG1105D Engineering Mechanics – QUIZ # 1i
 Wednesday, September 11, 2019

1) Find the value of each trigonometric ratio:

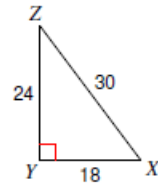
a) $\sin(Z) = 0.6$



b) $\tan(X) = 1.3333$

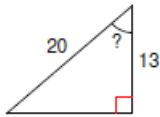


c) $\cos(Z) = 0.8$

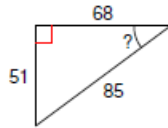


2) Find the measure of the indicated angle:

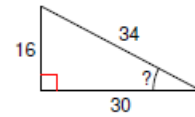
a) $? = 49.46^\circ$



b) $? = 36.87^\circ$

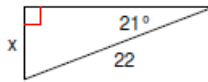


c) $? = 28.07^\circ$



3) Find the missing side, rounded to the nearest tenth:

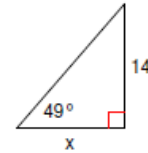
a) $x = 7.88u$



b) $x = 15.79u$

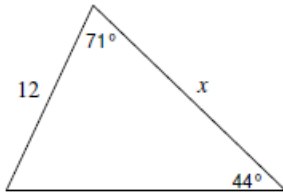


c) $x = 12.17u$



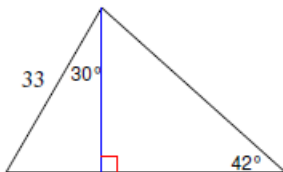
4) Find the length of the side labeled "x":

a) $x = 15.66u$

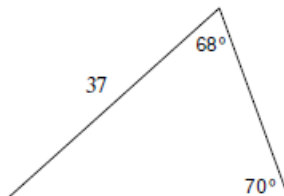


5) Find the area of each triangle:

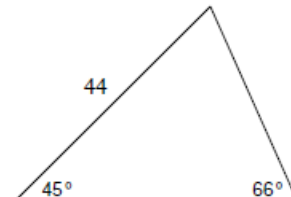
a) $689.32u^2$



b) $451.92u^2$

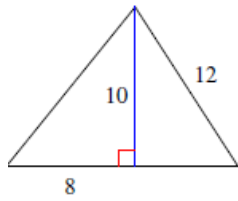


c) $699.49u^2$

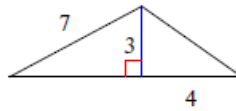


6) Find the area of each triangle:

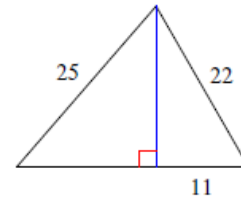
a) $73.17u^2$



b) $15.49u^2$

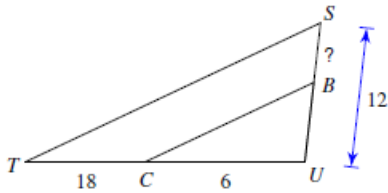


c) $258.99u^2$

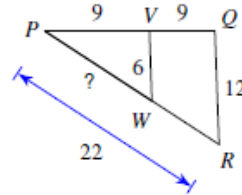


7) Find the missing length. The triangles in each pair are similar.

a) $? = 9u$

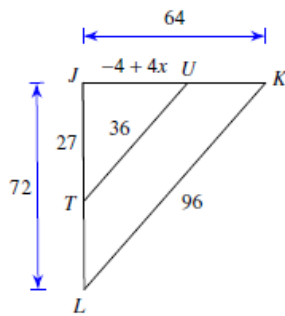


b) $? = 11u$



8) Solve for x. The triangles in each pair are similar.

a) $x = 7u$



b) $x = 11u$

