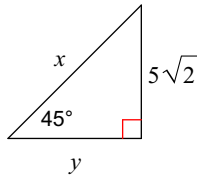


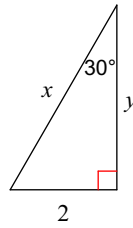
TEST 7 Triangles and Polygons (#1-2 2 pts, 3-26 1 point each, 28 pts total)

Find the missing side lengths. Leave your answers as radicals in simplest form.

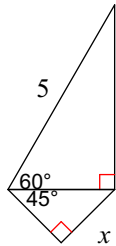
1)



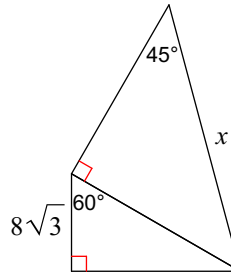
2)



3)

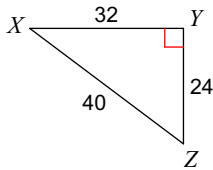


4)

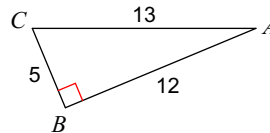


Find the value of each trigonometric ratio.

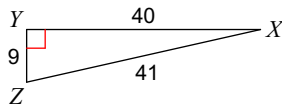
5) $\sin Z$



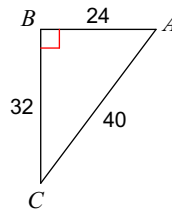
6) $\cos C$



7) $\tan Z$

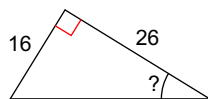


8) $\tan A$

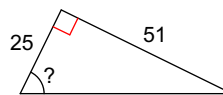


Find the measure of the indicated angle to the nearest degree.

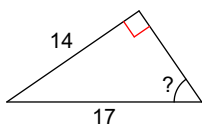
9)



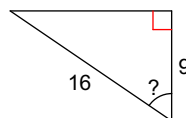
10)



11)

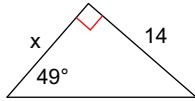


12)

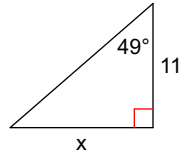


Find the missing side. Round to the nearest tenth.

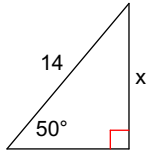
13)



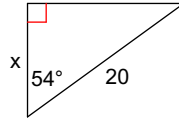
14)



15)



16)



Find the measure of one interior angle in each regular polygon. Round your answer to the nearest tenth if necessary.

17) regular 19-gon

18) regular 21-gon

Find the interior angle sum for each polygon. Round your answer to the nearest tenth if necessary.

19) regular 23-gon

20) regular 19-gon

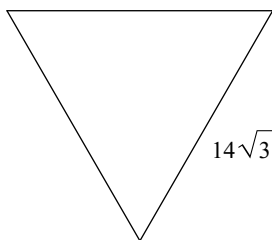
Find the measure of one exterior angle in each regular polygon. Round your answer to the nearest tenth if necessary.

21) regular 20-gon

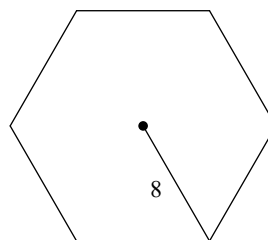
22) regular nonagon

Find the area of each regular polygon. Leave your answer in simplest form.

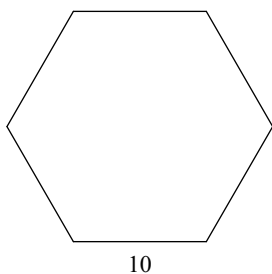
23)



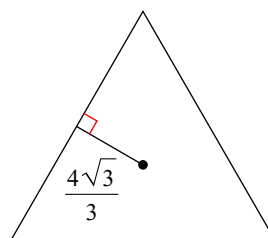
24)



25)



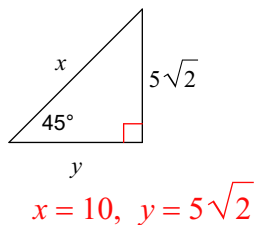
26)



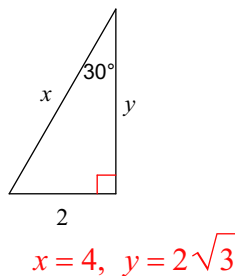
TEST 7 Triangles and Polygons (#1-2 2 pts, 3-26 1 point each, 28 pts total)

Find the missing side lengths. Leave your answers as radicals in simplest form.

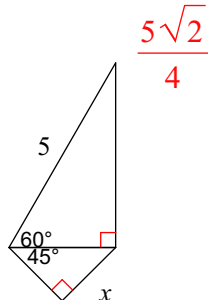
1)



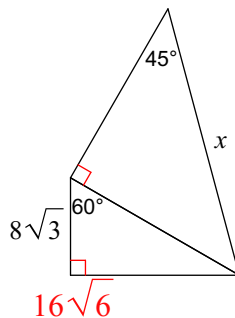
2)



3)

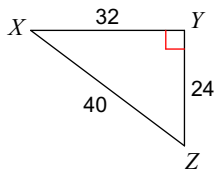


4)

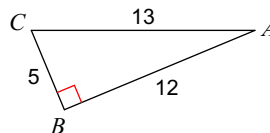


Find the value of each trigonometric ratio.

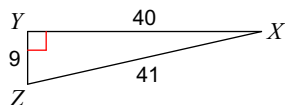
5) $\sin Z = \frac{4}{5}$



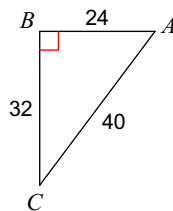
6) $\cos C = \frac{5}{13}$



7) $\tan Z = \frac{40}{9}$

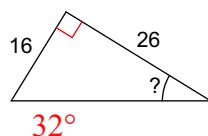


8) $\tan A = \frac{4}{3}$

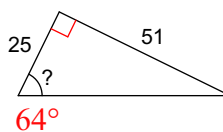


Find the measure of the indicated angle to the nearest degree.

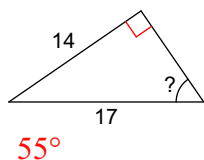
9)



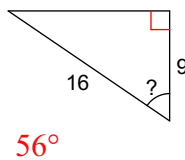
10)



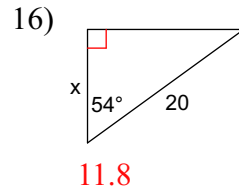
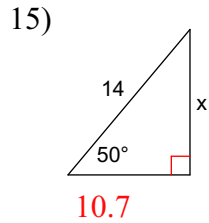
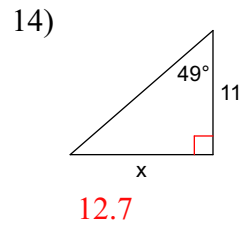
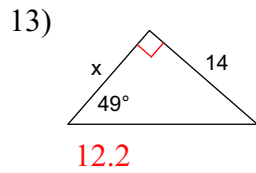
11)



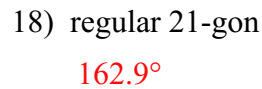
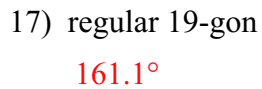
12)



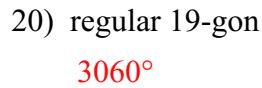
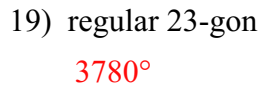
Find the missing side. Round to the nearest tenth.



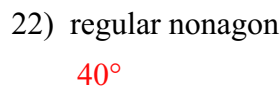
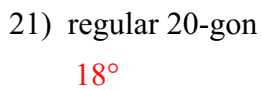
Find the measure of one interior angle in each regular polygon. Round your answer to the nearest tenth if necessary.



Find the interior angle sum for each polygon. Round your answer to the nearest tenth if necessary.



Find the measure of one exterior angle in each regular polygon. Round your answer to the nearest tenth if necessary.



Find the area of each regular polygon. Leave your answer in simplest form.

