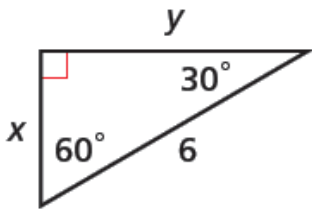
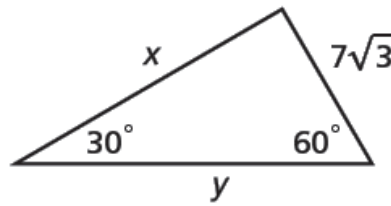


Special Right Triangles

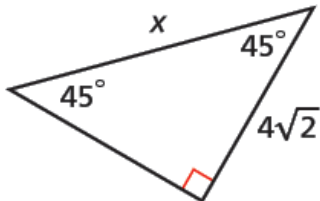
1. Find the value of x and y . (No decimals – don't use trig!)



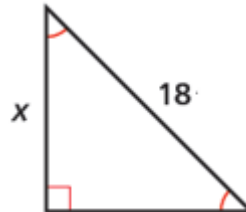
2. Find the value of x and y . (No decimals – don't use trig!)



3. Find the value of x . (No decimals – don't use trig!)

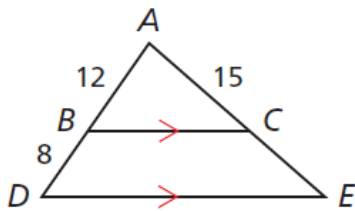


4. Find the value of x . (No decimals – don't use trig!)

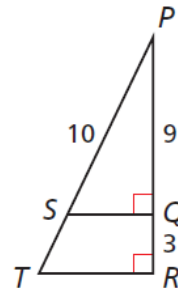


Similarity

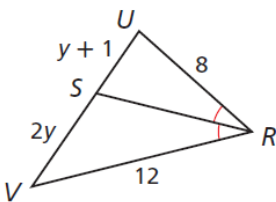
5. Find the length of CE .



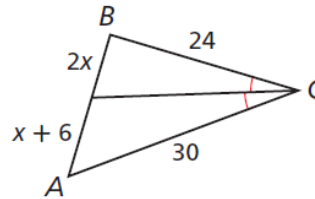
6. Find the length of ST .



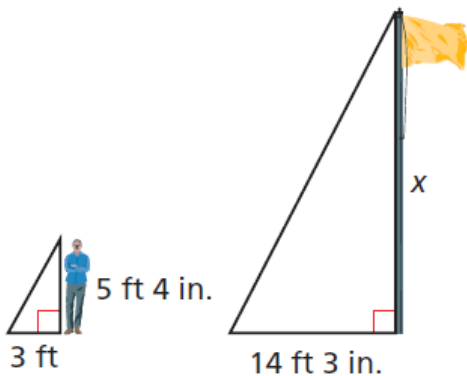
7. Find the length of SU and SV .



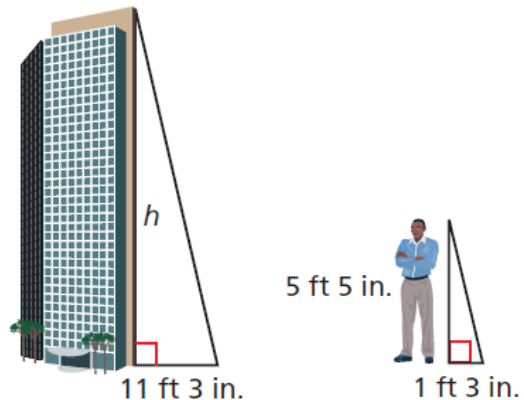
8. Find the perimeter of $\triangle ABC$.



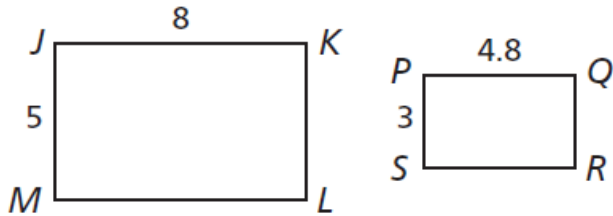
9. To find the height of the flagpole, Casey measured her own shadow and the flagpole's shadow. What is the height of the flagpole?



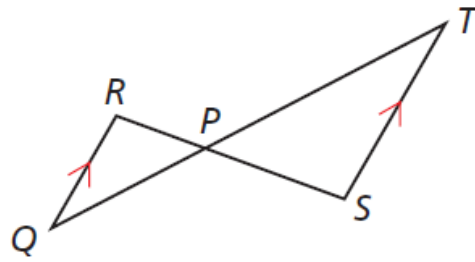
10. A student who is 5' 5" tall measured his shadow and the shadow of the tower. How tall is the tower?



11. Find the scale factor of the figures if they are similar and write a similarity statement.

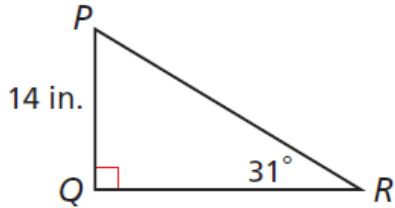


12. Are the triangles similar? Explain how you know.

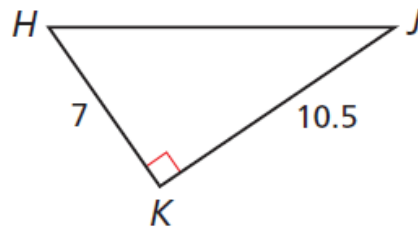


Trigonometry

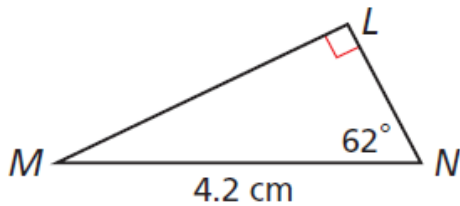
13. Find the length of QR. Round to the nearest hundredth.



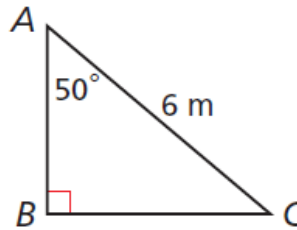
14. Find $m\angle J$. Round to the nearest degree.



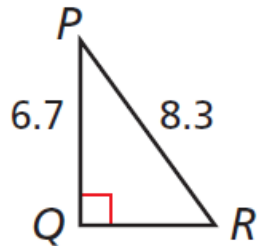
15. Find the length of LM. Round to the nearest hundredth.



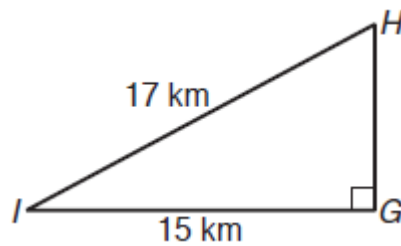
16. Find the length of AB. Round to the nearest hundredth.



17. Find $m\angle P$. Round to the nearest degree.



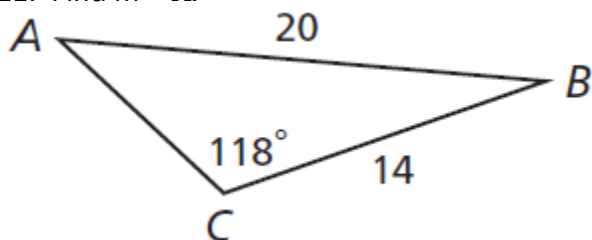
18. Find $m\angle H$. Round to the nearest degree.



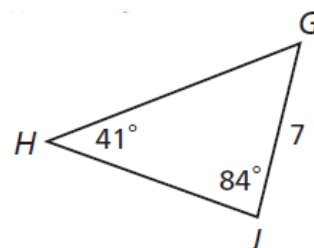
19. An observer in a blimp sights a football stadium at an angle of depression of 34° . The blimp's altitude is 1600 ft. What is the horizontal distance from the blimp to the stadium? Round to the nearest foot.

20. When the angle of elevation of the sun is 78° , a building casts a shadow that is 6 m long. What is the height of the building to the nearest tenth of a meter?

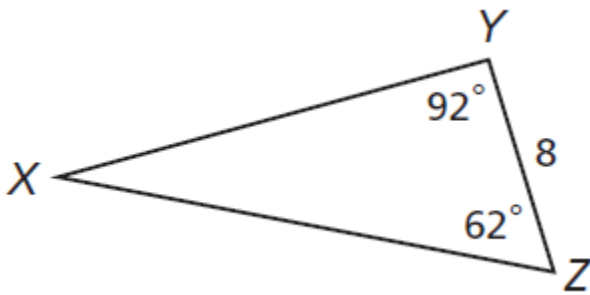
21. Find $m\angle A$.



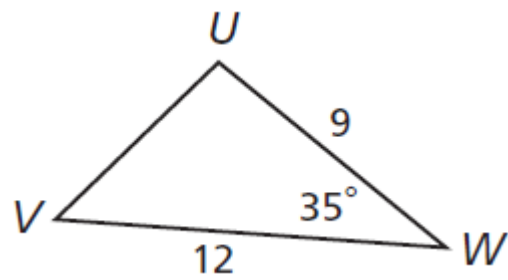
22. Find the length of GH.



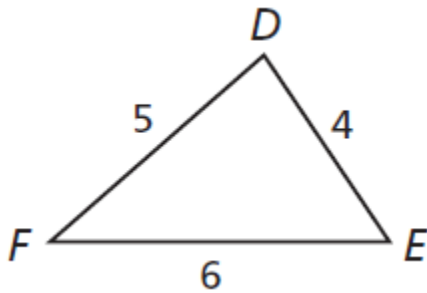
23. Find the length of XZ.



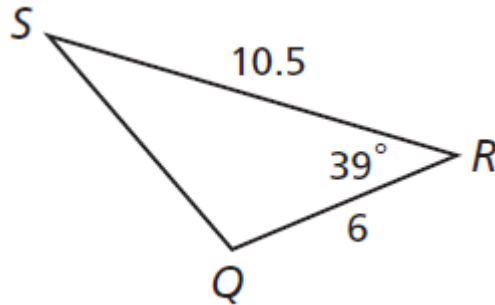
24. Find the length of UV.



25. Find $m\angle F$.



26. Find the length of QS.



Area and Perimeter

The review for this portion of the test is the worksheet Area #1-18 from last week and #1-8 area of polygons and composite figures from Friday 3/9.