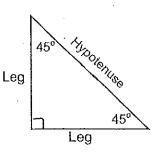
1 VUITU

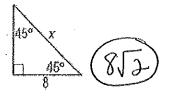
Special Right Triangles: 45° - 45° - 90°

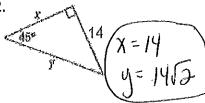
Hypotenuse = Leg * $\sqrt{2}$

- 1) Label sides, "S", "SVJ
- 2) write eqin. w/ given value,
- Leg = $\frac{\text{hypotenuse}}{\sqrt{2}}$
- 3 Solve for "S"
- Substitute in for "s"



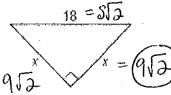
Find the value of x in each triangle.



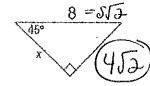


3.

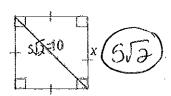




5.

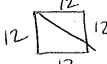


6.



Sketch the figure that is described. Find the requested measure.

7. The perimeter of a square is 48 meters. Find the length of a diagonal.

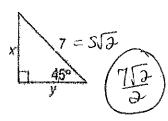


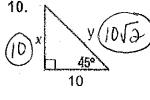
8. The perimeter of a square is 20 cm. Find the length of a diagonal.



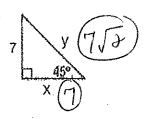
Find the value of x and y in each figure.

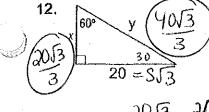
9.

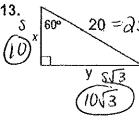


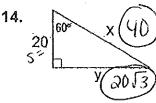


11.









Trigonometry Prerequisite: Special Right Triangles

Special Right Triangles: 30° - 60° - 90°

Hypotenuse = 2 * Short Leg

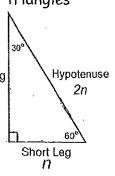
Long Leg = Short Leg * $\sqrt{3}$

(1) Label sides "s", "\$13","25

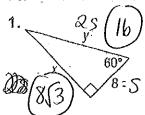
(2) Write eqn. w/ given value.

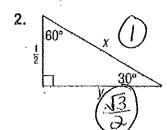
3 Solve ou "s"

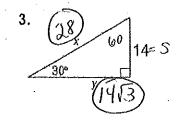
(4) Substitute in our "s"

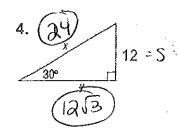


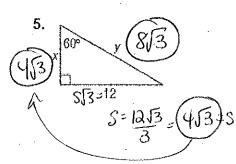
Find the value of x and y in each triangle.

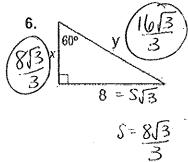


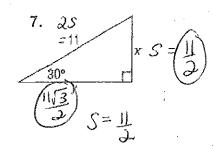


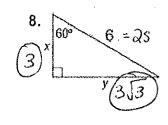


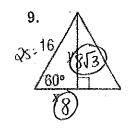












Sketch the figure that is described. Then, find the requested measure.

10. An equilateral triangle has a side length of 10 inches. Find the length of the triangles altitude.





11. The altitude of an equilateral triangle is 18 inches. Find the length of a side.

