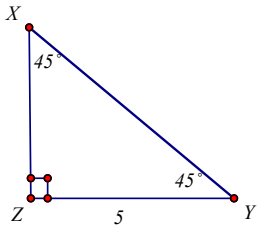
Special Right Triangles

Information needed

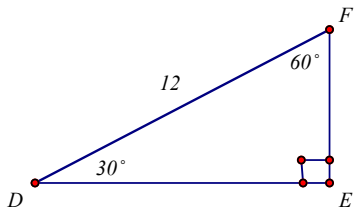
In a 45-45-90 Δ, ~the hypotenuse is the $\sqrt{2}$ times the side.

In a 30-60-90 Δ, ~the long side is $\sqrt{3}$ the shorter side and
~the hypotenuse is 2 times the shorter side.

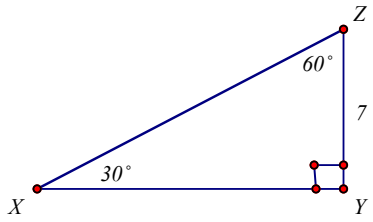
1. Find XZ and XY.



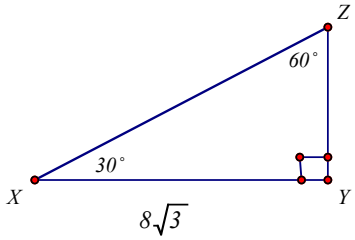
2. Find DE and EF.



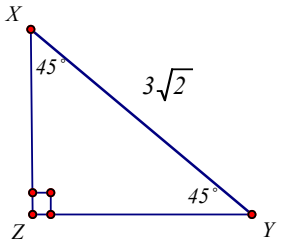
3. Find XY and XZ.



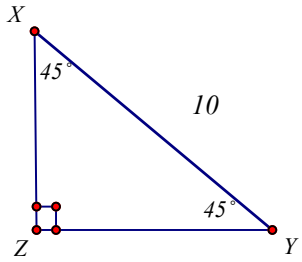
4. Find YZ and XZ.



5. Find XZ and YZ.



6. Find XZ and YZ.



7. Find AC, CD, BD, AD and AC.