

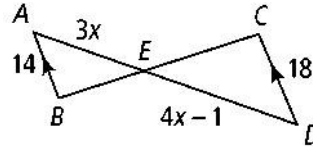
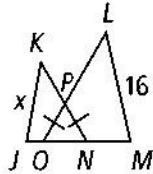
HW-32 (2 nd page)

Practice (continued)

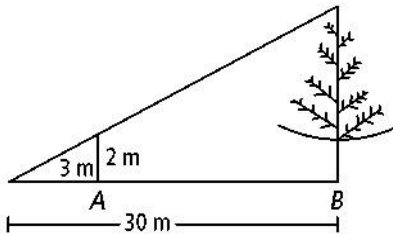
Proving Triangles Similar

Explain why the triangles are similar. Then find the value of x .

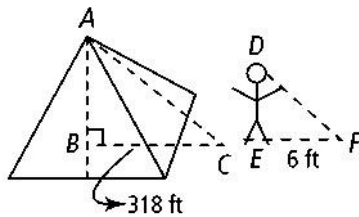
10. $OP \parallel NP$, $KN \parallel 15$,
 $LO \parallel 20$, $JN \parallel 9$,
 $MO \parallel 12$



- 12.



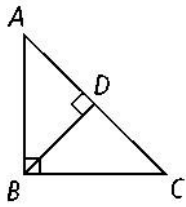
A stick 2 m long is placed vertically at point B . The top of the stick is in line with the top of a tree as seen from point A , which is 3 m from the stick and 30 m from the tree. How tall is the tree?



- 13.

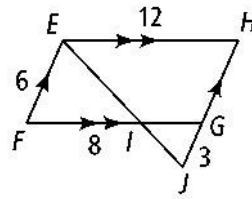
Thales was an ancient philosopher familiar with similar triangles. One story about him says that he found the height of a pyramid by measuring its shadow and his own shadow at the same time. If the person is 5-ft tall, what is the height of the pyramid in the drawing?

Identify the similar triangles in each figure. Explain.

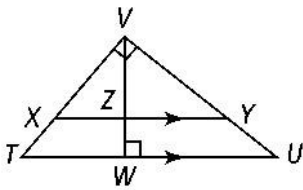


14.

15



16.



17.

