

NAME:
Period:

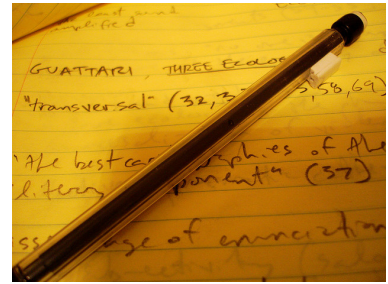
Similarity & Right Triangle Trigonometry

6.4

Ready, Set, Go!

Ready

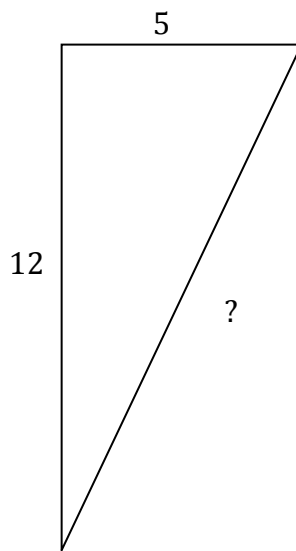
Topic: Pythagorean Theorem and ratios for similar triangles.



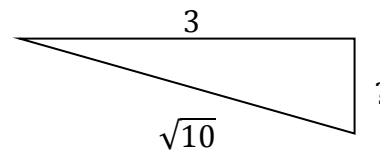
©2013 www.flickr.com/photos/idiolactor

Find the missing side in each right triangle.

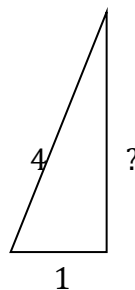
1.



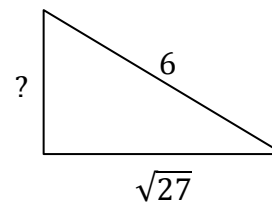
2.



3.



4.



© 2013 MATHEMATICS VISION PROJECT | MVP

In partnership with the Utah State Office of Education

Licensed under the Creative Commons Attribution-NonCommercial-ShareAlike 3.0 Unported license



NAME:

Similarity & Right Triangle

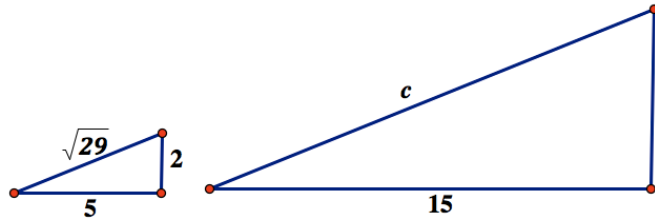
6.4

Period:

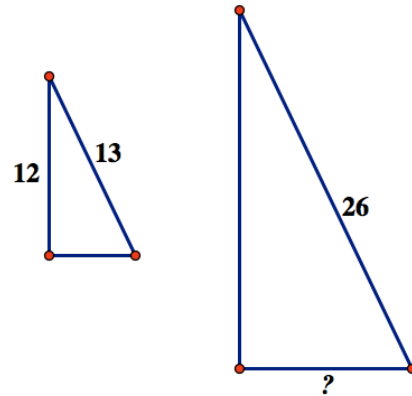
Trigonometry

Create a proportion for each set of similar triangles. Then solve the proportion.

5.



6.

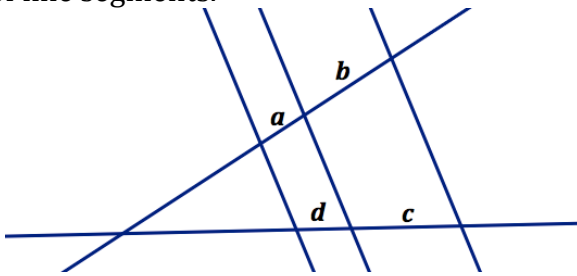


Set

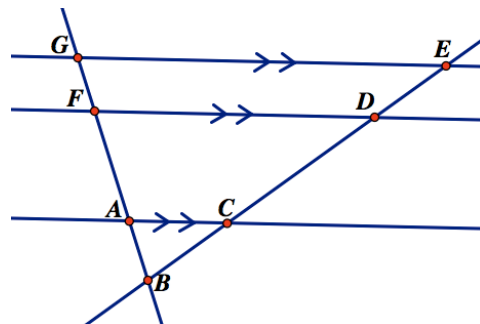
Topic: Proportionality of transversals across parallel lines.

For each diagram write three equal ratios.

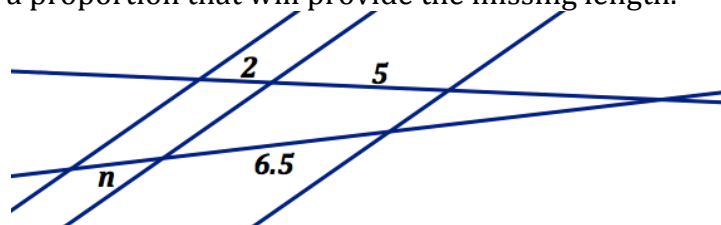
7. The letters a, b, c and d represent lengths of line segments.



8.



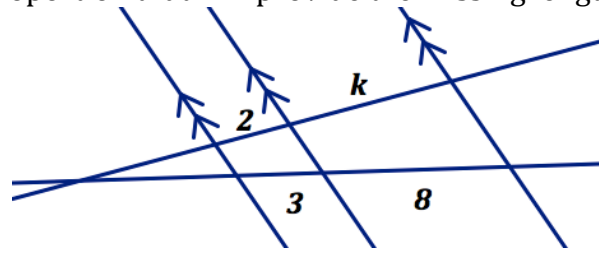
9. Write and solve a proportion that will provide the missing length.



NAME:
Period:

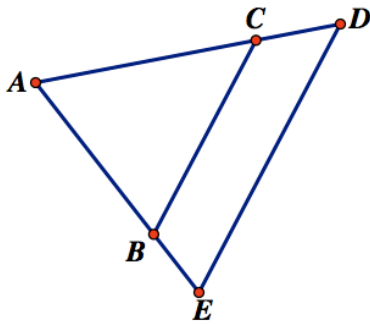
Similarity & Right Triangle Trigonometry | 6.4

10. Write and solve a proportion that will provide the missing length.



In each diagram find and label the parallel lines. (i.e. $\overline{AB} \parallel \overline{CD}$) Then write a similarity statement for the triangles that are similar. (i.e. $\Delta ABC \sim \Delta XYZ$)

11.



12.

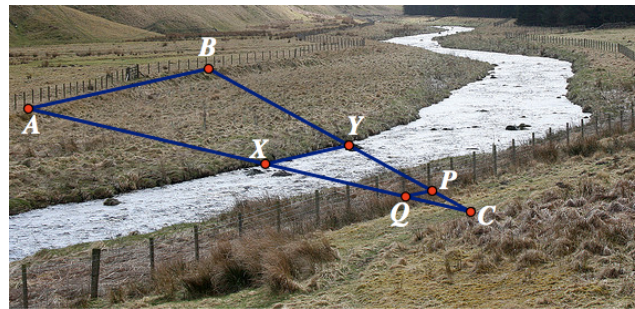
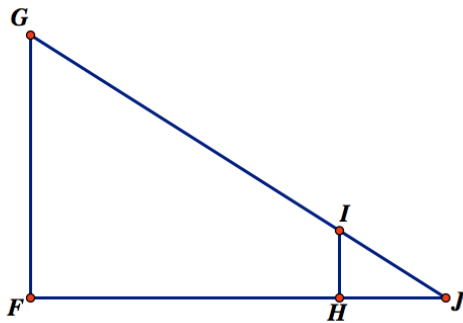
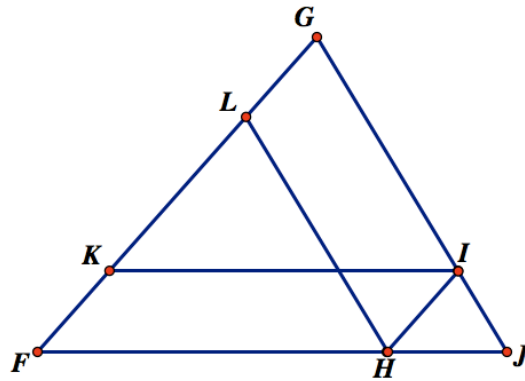


Photo of river
© 2013 <http://www.flickr.com/photos/electropod/3391592745/>

13.



14.



NAME:
Period:

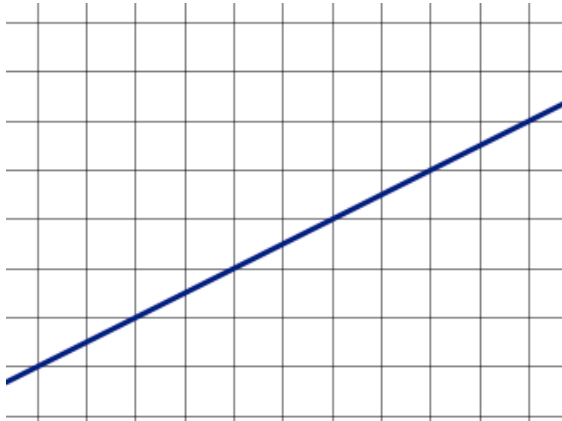
Similarity & Right Triangle
Trigonometry | 6.4

Go

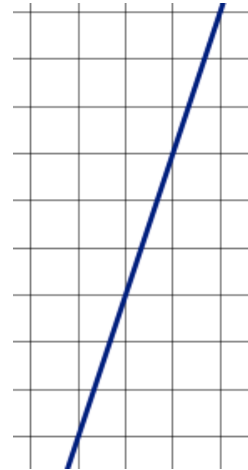
Topic: Similarity of slope triangles.

Each line below has several triangles that can be used to determine the slope. Draw in three slope defining triangles of different sizes for each line and then create the ratio of rise to run for each.

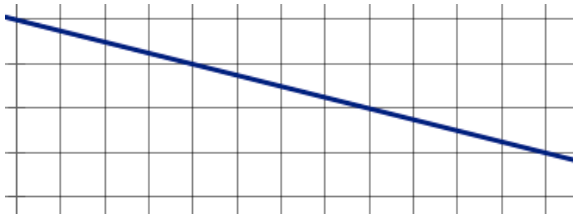
15.



16.



17.



18.

