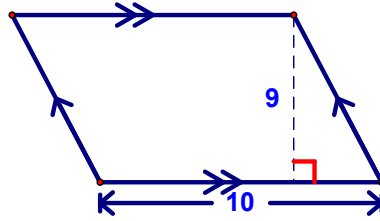
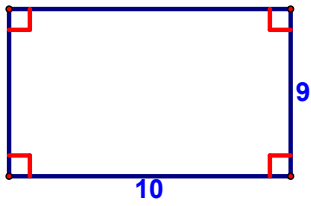


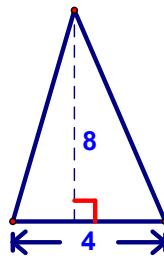
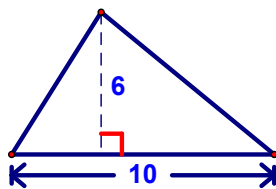
1a.

By computing areas, find the ratio of the areas of the figures shown:



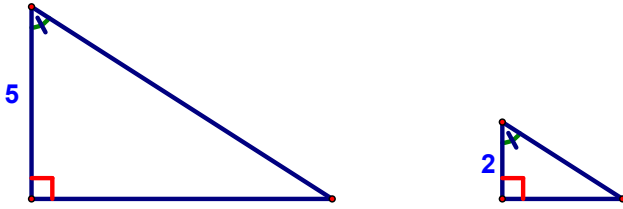
1c.

By computing areas, find the ratio of the areas of the figures shown:



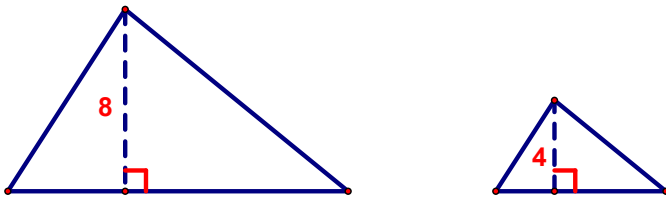
2a.

By using the Similar-Figures Theorem, find the ratio of the areas of the similar triangles:



2c.

By using the Similar-Figures Theorem, find the ratio of the areas of the similar triangles:



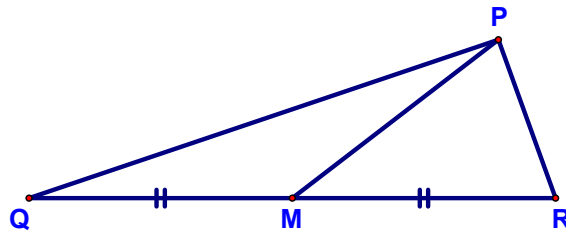
3.

Given: \overline{PM} is a median

Find: a. $A_{\triangle PQM} : A_{\triangle PRM}$

b. $A_{\triangle PQM} : A_{\triangle PQR}$

c. $QR : MR$



4.

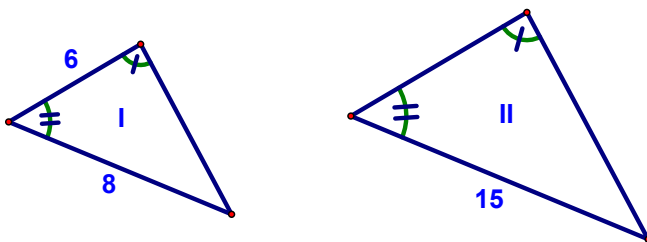
A pair of corresponding sides of two similar triangles are 4 and 9. Find the ratio of the triangles' areas.

5.

If the ratio of the areas of two similar polygons is 9:16, find the ratio of a pair of corresponding altitudes.

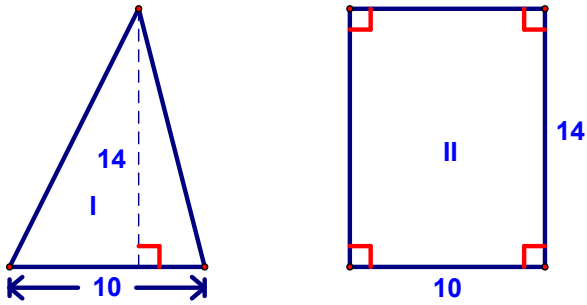
9a.

Find the ratio of area I to area II.



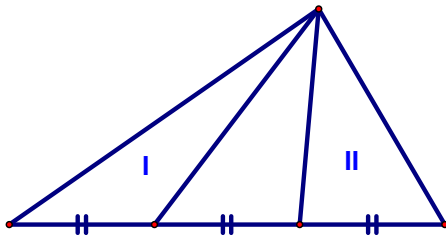
9b.

Find the ratio of area I to area II.



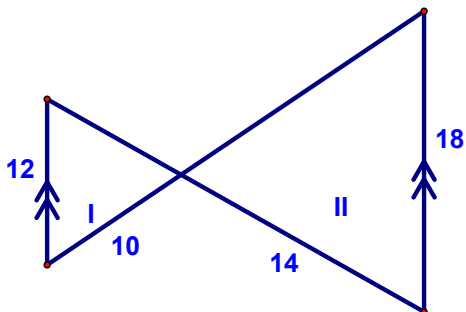
9c.

Find the ratio of area I to area II.



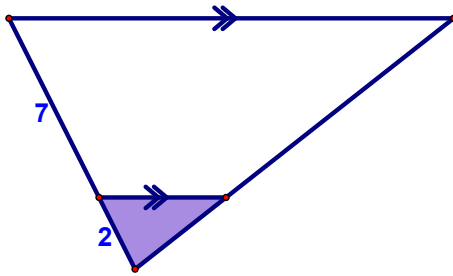
9d.

Find the ratio of area I to area II.



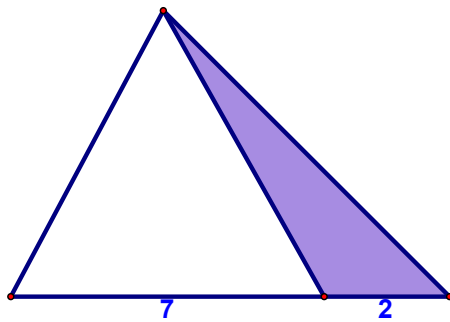
10a.

Find the ratio of the area of the shaded triangle to that of the whole triangle:



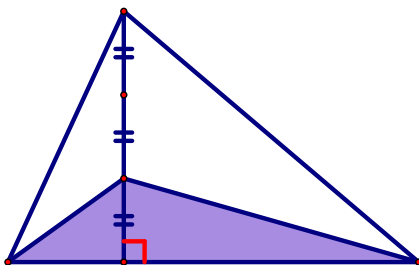
10b.

Find the ratio of the area of the shaded triangle to that of the whole triangle:



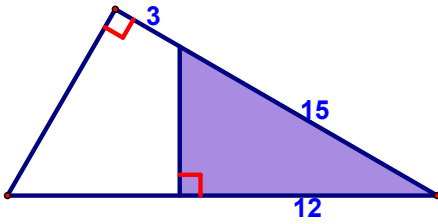
10c.

Find the ratio of the area of the shaded triangle to that of the whole triangle:



10d.

Find the ratio of the area of the shaded triangle to that of the whole triangle:

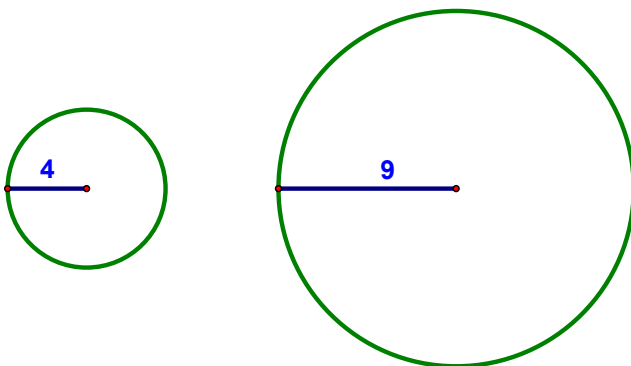


14.

One triangle has sides 13, 13, and 10. A second triangle has sides 12, 20, and 16. Find the ratio of their areas.

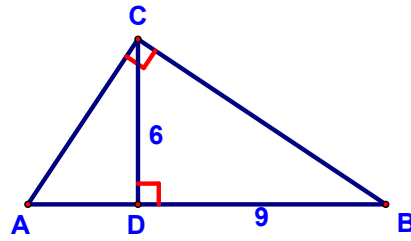
15.

Find the ratio of the areas of two circles if their radii are 4 and 9.



17.

Find $A_{\triangle ACD} : A_{\triangle BCD}$

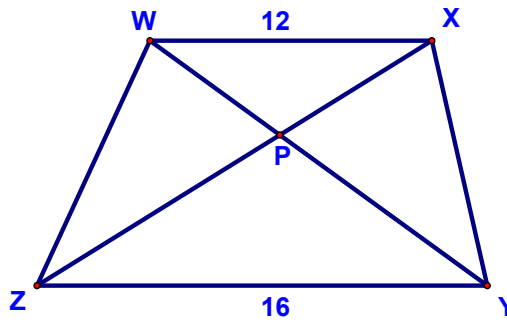


18.

Given trapezoid WXYZ, find the ratio of the areas of each pair of triangles:

- a. $\triangle WYZ$ and $\triangle XYZ$
- b. $\triangle WXZ$ and $\triangle WXY$
- c. $\triangle WPZ$ and $\triangle XPY$

- d. $\triangle WPX$ and $\triangle ZPY$
- e. $\triangle WPX$ and $\triangle XPY$



21.

Given: Trapezoid ABCD

Find: The ratio of areas I and II

