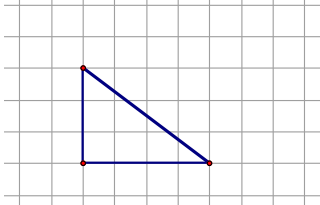


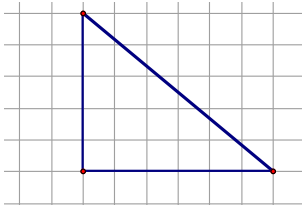
B2.3: Similar Triangles*

1. Which of the triangles drawn below is similar to Triangle R?

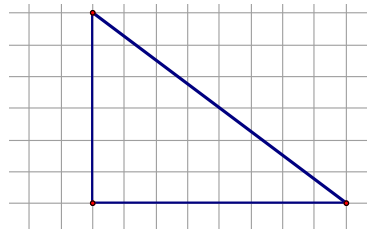
Triangle R



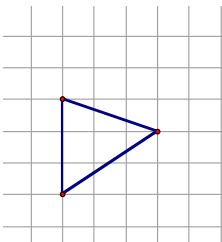
Triangle 1



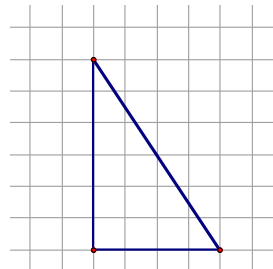
Triangle 2



Triangle 3



Triangle 4



Explain how you decided which triangle(s) were similar to R.

2. If Triangle R is mapped to an image Triangle R' by a dilation, what will height and base lengths be for Triangle R' using the following scale factors?

Height Base

Scale factor of 2.5

Scale factor of 10

Scale factor of n

Show how you figured out the image heights and bases.

4. If Triangle R is mapped to an image Triangle R' by a dilation, what will the area be for Triangle R' for the following scale factors?

Area of Triangle R'

Scale factor of 2.5

Scale factor of 10

Scale factor of n

Show how you figured out each new area.