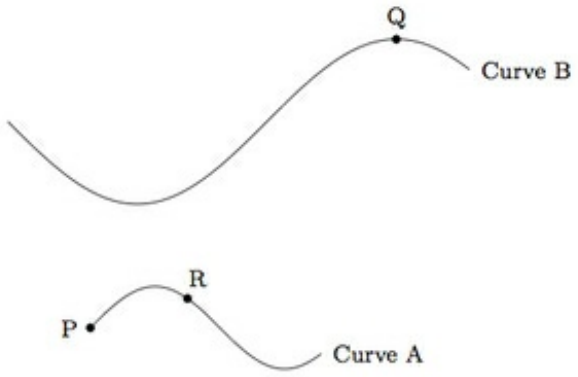
8.G A scaled curve

Task

Below are two curves with some labeled points.



Curve B is a scaled version of curve A: this means that there is a scale factor $r > 0$ so that the distance between any pair of points on curve A is scaled by a factor of r when looking at the corresponding points on curve B.

a. Identify and label the point on curve B corresponding to the point P on curve A. How do you know you have chosen the correct point?

b. Identify and label the point on curve A corresponding to the point Q on curve B. How do you know you have chosen the correct point?

c. Take measurements to find the scale factor going from curve A to curve B? Explain.

d. Can you find the point on curve B corresponding to the point R on curve A? Explain.

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