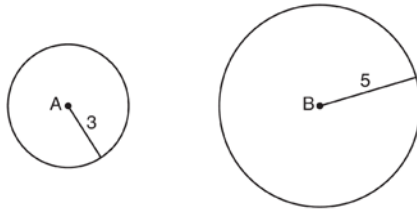


G.C.A.1: Similarity Proofs

- 1 As shown in the diagram below, circle A has a radius of 3 and circle B has a radius of 5.



Use transformations to explain why circles A and B are similar.

G.C.A.1: Similarity Proofs
Answer Section

1 ANS:

Circle A can be mapped onto circle B by first translating circle A along vector \overline{AB} such that A maps onto B , and then dilating circle A , centered at A , by a scale factor of $\frac{5}{3}$. Since there exists a sequence of transformations that maps circle A onto circle B , circle A is similar to circle B .

REF: spr1404geo