

Complex Variables

Instructions Please write your name in the upper right-hand corner of the page. Write complete sentences to explain your solutions.

1. Find a linear fractional transformation that takes the triple of points $(0, 1, 2)$ onto $(1, 2, 3)$.
2. Find a linear fractional transformation that takes the triple $(1, 0, \infty)$ onto $(\infty, 1, 0)$.
3. Find a linear fractional transformation that takes the circle centered at 0 with radius 1 onto the circle centered at 3 with radius 2.