

## 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.