

# MATH 415/515 Quiz 1

Name: \_\_\_\_\_

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Show all work. 10 points each.

1. Let  $w = f(z) = (1 + z)/(1 - z)$ . Find  $f(i)$  and represent the map graphically from the  $z = x + iy$  coordinate system to the  $w = u + iv$  coordinate system.

2. Let  $z = \pi + \ln(2)i$ . Find  $|e^{iz}|$ .