

#Jenny



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Cool! I'am really happy

#Markus Jensen



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My friends are so mad that they do not know how I have all the high quality ebook which they do not!

#Diego Butler



so many fake sites. this is the first one which worked! Many thanks

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Solution Manual Complex Analysis Gamelin

CHAPTER 3: Analytic Functions

EXERCISES 3.1: Functions of a Complex Variable

- $a, w = (3^2 - 1)^2 + 4i$ for $a = i, -3i$ and $4i$
 $b, w = \frac{2}{2+i} + i \left(\frac{2}{2+i} \right)$
 $w = \frac{2}{2+i} = \frac{2(2-i)}{(2+i)(2-i)} = \frac{2(2-i)}{4+1} = \frac{2(2-i)}{5} = \frac{4-2i}{5}$
 $w = \frac{4-2i}{5} + i \left(\frac{4-2i}{5} \right) = \frac{4-2i}{5} + \frac{4i-2i^2}{5} = \frac{4-2i+4i+2}{5} = \frac{6+2i}{5}$
 $w = \frac{6+2i}{5}$
 $1, w = (3^2 + 2^2) \cos \theta + i(3^2 - 2^2) \sin \theta$
 $= 13 \cos \theta + i 5 \sin \theta$
- $a, C: [0]$
 $b, C: [0, -1]$
 $c, C: [0, 1]$
 $d, C: [1]$
 $e, C: [1, 0]$
- $a, \operatorname{Re} w = 5$
 $b, \operatorname{Im} w = 0$
 $c, |w| = 1$
 $d, \text{The intersection of } |w| < 1 \text{ and } -\pi < \arg w < \pi$
- $a, \text{Taking } z \text{ from } 0 \text{ to } 2\pi, \text{ the points } z = re^{i\theta} \text{ traverse the circle } |z| = r \text{ exactly once in the counterclockwise direction. For the same value of } r \text{ the points } z = \frac{1}{r} e^{i\theta} \text{ traverse the circle } |z| = \frac{1}{r} \text{ exactly once in the clockwise direction, hence the mapping is anti-conformal.}$
- $\text{For } z = re^{i\theta} \text{ on the ray } \arg z = \theta_0, w = \frac{1}{z} = \frac{1}{r} e^{-i\theta} \text{ is on the ray } \arg w = -\theta_0. \text{ Taking values } 0 < \theta < 2\pi \text{ we check that this mapping goes from the ray } \arg z = \theta_0$