6. Demoestre Que:

a)
$$log(ie) = l - \frac{\pi}{2} l$$
 $klog(ig) = l - \frac{\pi}{2} l$
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 $klog(e \cdot e^{\frac{\pi}{2}i}) = ln(e) + (\frac{\pi}{2}i) r$

b) $log(2-i) = \frac{1}{2}ln(2) - \frac{\pi}{4}i$
 $log(2e^{\frac{\pi}{2}ni}) = ln(f) + \frac{\pi}{4}i$
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 $log(2e^{\frac{\pi}{2}ni}) = ln(e) + \frac{\pi}{4}i$
 $log(e \cdot e^{\frac{\pi}{2}ni}) = ln(e) + 2\pi\pi i$
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 $log(e \cdot e^{\frac{\pi}{2}ni}) = ln(e) +$

•
$$C \approx (x) = Cosh(i\pi)$$
 $Cosh(i\pi) = \frac{1}{2}(e^{iy} + e^{-i\pi}) = \frac{1}{2}(2\cos\theta)$
 $L_{3} = 2$
 $Cosh(i\pi) = cos(\pi)$

• $Senh(i\pi) = isen(\pi)$

• $Senh(i\pi) = \frac{1}{2}(e^{ix} - e^{-ix}) = \frac{1}{2}(2isen\theta)$; $\theta = x$
 $Senh(i\pi) = isen(\pi)$

• $Senh(i\pi) = ise$

•
$$2 \cosh(4x) - 8 \cosh(2x) + 5 = 0$$

2 ($5 \cosh^{2}(2x) + \cosh^{2}(2x) - 4 \cosh(2x) = 5$)

2 ($1 + \cosh^{2}(2x) + \cosh^{2}(2x) - 4 \cosh(2x) = 5$)

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3 ($1 + \cosh^{2}(2x) - 4 \cosh(2x) = 5$)

3 ($1 + \cosh^{2}(2x) = 5 \cosh(2x) + 2 \cosh(2x)$

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10 ($1 + \cosh^{2}(2x) = 5 \cosh^{2}(2x) + 2$

$$(3i2 - 4)$$

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$$(1.5)(3i2 - 4) - (3i)(2.52 + 2i)$$

$$(3i2 - 4)^{\frac{1}{2}}$$

$$= 4.5 \cdot 2 - 6 - 4.5 \cdot 2 + 6 = 4.5 \cdot 2(1 - 1)$$

$$= 4.5 \cdot 2(1 - 4)$$

$$= 4.5 \cdot 2(1 - 4)$$

$$= (3i2 - 4)^{\frac{1}{2}}$$

$$d) i(1 - 2)^{\frac{1}{2}}$$

$$d) i(2 - 2)^{\frac{1}{2}}$$

$$d = 1 - 2$$

$$w = i \cdot n$$

$$-1(i \cdot n \cdot n^{-1}) = -(i \cdot n(1 - 2)^{n-1}) = \pi \cdot n$$

$$e) (i \cdot 2^{3} + 3 \cdot 2^{2})^{\frac{3}{2}}$$

$$(3i(2i)^{2} + 6(2i)) \cdot 3(i \cdot 2^{3} + 3 \cdot 2^{2})^{\frac{1}{2}}$$

$$(3i(2i)^{2} + 6(2i)) \cdot (3i(2i)^{2} + 3(2i)^{2})$$

$$(3i(-4) + 12i) \cdot (3i(-3i) + 9(-9))$$

$$(-12i + 12i) \cdot (24 - 36)^{\frac{1}{2}} = 12^{\frac{1}{2}} = 144$$

$$\frac{2^{3}}{(2+i)^{3}}$$

$$\frac{1}{(2+i)^{5}}$$

$$3(i)^{2}(i + i)^{3} - 3(2+i) \cdot 2^{3}$$

$$(2+i)^{5}$$

$$3(i)^{2}(i + i)^{3} - 3(i + i)^{2}i^{3}$$

$$(2+i)^{5}$$

$$\frac{12i}{32i} = \frac{3}{8}i$$

Encuentie Si lus Sunciones son analyticus

a)
$$f(z) = j + 2$$
 $f(x,y) = j + 2$
 $f(x,y) = j$

 $\frac{\partial V}{\partial x} = -e^{x} \cos(3)$

 $\frac{\partial v}{\partial u} = e^{x} \cos(u)$