Demostrar los transformada de Laplace.

1) L sebt u(+1) = ? 4) 2 sebt cos (wot) u(+) }

2) L scos (wot) u(+) = ? 5.) L sebt sin (wot) u(+) }

3) L sin (wot) u(+)] = ?

1) 2 sebt u(+)]

=
$$\int_{0}^{\infty} e^{it} \cdot e^{-st} dt = \int_{0}^{\infty} e^{+(b-s)} dt$$

= $\int_{0}^{\infty} e^{-t} \cdot e^{-st} dt = \int_{0}^{\infty} e^{+(b-s)} dt$

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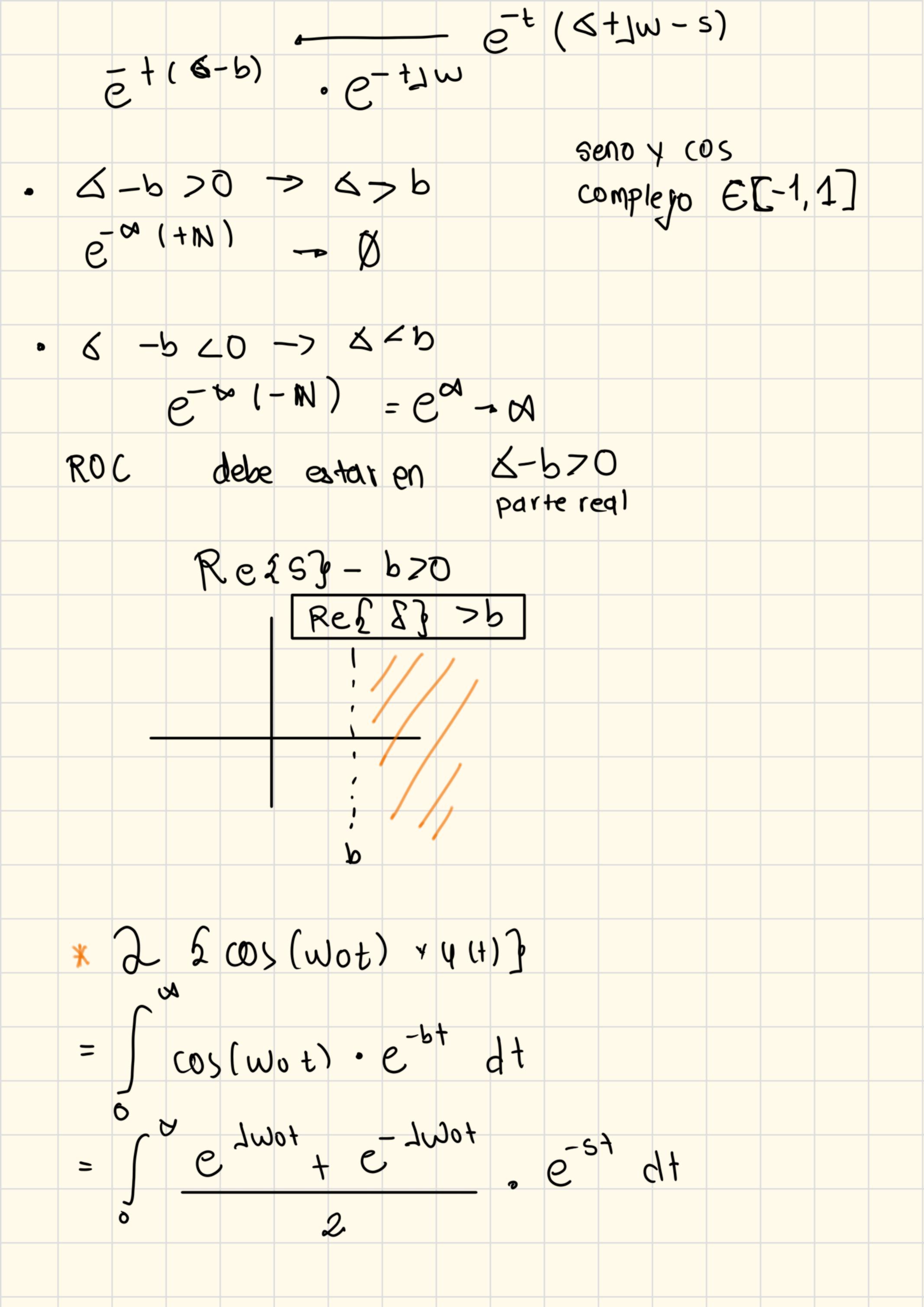
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$$= \frac{1}{2} \int_{0}^{\infty} \frac{1}{2}$$

$$= \frac{1}{2} \left[\frac{1}{100^{-5}} \left[e^{-56} - e^{0} \right] - \frac{1}{5 + 100} \right]$$

$$= \frac{1}{2} \left[\frac{1}{5 + 100} + \frac{1}{5 + 100} \right]$$

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$$= \frac{1}{2} \left[\frac{25}{5^{2} - (100)^{2}} \right]$$

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$$= \frac{1}{2} \left[\frac{1}{5 - 100} + \frac{1}{5 + 100} + \frac{1}{5$$

