Recipling 1. (1 + bi) = ac + ab + ba - bd

$$(a+b)((a+b)) = a - (ab + ba - bd)$$
 $(a+b)((a+b)) = a - (ab + ba - bd)$
 $(a+b)((a+b)) = a - (ab + ba - bd)$
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 $(a+b)(($

(2°+3°.)f (2.3°.)f

$$\frac{(3.37)^{\frac{1}{2}}}{(2.37)^{\frac{1}{2}}} = \frac{(2.37)^{\frac{1}{2}}}{(2.37)^{\frac{1}{2}}} = \frac{(2$$

$$5e^{-\frac{1}{4}} + 31e^{\frac{3}{4}} + (-5e^{-\frac{3}{4}} + 27e^{-\frac{3}{4}}) A + B(5e^{-\frac{1}{4}} + 9e^{-\frac{3}{4}}) z_1$$
 $\Rightarrow (5 - 5A + 5B) e^{-\frac{1}{4}} + (81 + 27A + 9B) e^{-\frac{3}{4}} = 0$
 $\Rightarrow -5A + 5B = -5 \Rightarrow -A + B = -1$
 $\Rightarrow -1$
 \Rightarrow

No et 12+ AreB =0 R(0) =0 A(0) =0

Allemaniaing this inhise times, we realize Aza

Recipion 5.

$$\dot{c} = \frac{-b + \sqrt{b^2 - 64}}{2} \Rightarrow \frac{-\frac{b}{2}}{e^2} \left(e^{\frac{1^2 - 64}{2}} + e^{\frac{1^2 - 64}{2}} \right)$$

$$A = \frac{1}{2}(-b \circ \sqrt{3} - 6v) + \frac{1}{2}(-b - \sqrt{3} - 6v) + \frac{1}{2}(-b -$$

Red Part frok of more bûner zo from o, b, k yo is do.

Minebin+
$$Kn=0$$
 => $mq=-bin$
 $f = 2i$
 $f = 2$

$$(r+3-i)(r+3+i) = 0$$

$$\frac{\alpha}{2} = \frac{\pi}{2} = \frac{\pi}$$

$$\frac{3}{1-i} \sqrt{\frac{12}{12i}} 2 - \frac{2712}{2} = \frac{7}{2}$$

$$\frac{1-2i}{2} = \frac{7}{2} = -2$$

$$\frac{3}{2} = \frac{7}{2} = \frac{3}{2}$$

$$\frac{3}{2} = \frac{3}{2}$$

Zzaesb
$$\rightarrow$$
 Ret) = Re(e^{ze})

Reth = Ca(2xt) \rightarrow are b= 2x

Reth = e^t a= 1 b= 0

Reth = e^t a(2xt) \rightarrow ard b= 9x

Reth = A \rightarrow are b= 0

3. Middlet - Surphy Dor.

On Paly
$$-\frac{1}{2} \cdot \frac{3}{2} \cdot \frac{5}{8} = \frac{5}{8} = \frac{1}{2} \cdot \frac{5}{4} \cdot \frac{5}{2} \cdot \frac{5}{8} = \frac{1}{2} \cdot \frac{5}{4} \cdot \frac{5}{2} \cdot \frac{5}{8} = \frac{1}{2} \cdot \frac{5}{4} \cdot \frac{5}{2} \cdot \frac{5}{4} \cdot \frac{5}{2} \cdot \frac{5}{4} \cdot \frac{5}{2} \cdot \frac{5}{4} \cdot \frac{5}{2} \cdot \frac{5}{4} \cdot$$

$$\frac{1}{2}r^{2} + \frac{1}{4}r + \frac{51}{25} = 0$$

$$\frac{1}{16} - \frac{4 \times 51}{5} = 0$$

$$2i$$

$$2(+) = e^{\frac{1}{4}t} \left(AC \times 2t + BS \times 2t \right)$$

$$2(-2) = \frac{1}{4}e^{\frac{1}{4}t} \left(AC \times 2t + BS \times 2t \right)$$

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