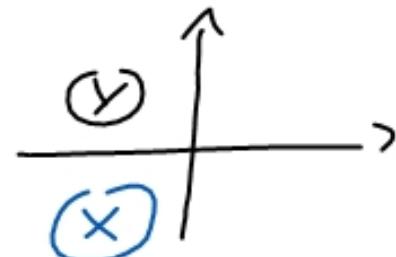


SS9 Nr. 2



$$4 \cdot (i - 3) \cdot (3 + 1) - (i - 2) \cdot (5 + i)$$

$$16i - 48 - (5i - 1 - 10 - 2i)$$

$$16i - 48 - 3i + 11 \Rightarrow z = -37 + 13i$$

$$\alpha = \arctan -\frac{13}{32} + \pi$$

$$4) 15i'' - 3i \cdot (2i^7 + 2i^8) + 6i \cdot (7i - 5i^{11} + 3i^6)$$

$$-15i - 3i \cdot (-2i + 2) + 6i \cdot (7i - 3)$$

$$-15i - 6 - 6i - 42 - 18i = -48 - 39i$$

$$\alpha = \arctan \frac{39}{48} + \pi$$

$$5) \frac{3-2i}{i-1} \cdot \frac{i+1}{i+1} = \frac{3i+3+2-2i}{-1-1} = \frac{5+i}{-2}$$

$$\frac{3i+4}{1-2i} \cdot \frac{1+2i}{1+2i} = \frac{3i-6+4+8i}{1+4} = \frac{-2+11i}{5}$$

$$\frac{-25-5i-(-4+22i)-(3i+19)}{10}$$

+  
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 $\textcircled{X}$

$$\frac{-40-30i}{10} = -4-3i$$

$$r = \sqrt{4^2 + 3^2} = 5$$

$$\alpha = \arctan \left( \frac{3}{4} \right) + \pi$$

$$z^2 - (6i - 4) \cdot z = 12i + 9 \quad | - 12i - 9$$

$$z^2 - \underbrace{(6i - 4)}_P \cdot z - \underbrace{12i - 9}_Q = 0$$

$$z_{1n} = \frac{6i - 4}{2} \pm \sqrt{\left(\frac{6i - 4}{2}\right)^2 - (-12i - 9)}$$

$$= 3i - 2 \pm \sqrt{(3i - 2)^2 + 12i + 9}$$

$\downarrow$

$$\underline{-9 - 12i + 4} \quad \underline{+12i + 9}$$

$$z_1 = 3i - 2 + 2 = 3i$$

$$z_2 = 3i - 2 - 2 = 3i - 4$$

$$A(x; y; z) = \cancel{7} (\cancel{x} \cancel{v} z) \cancel{\downarrow} y \leftrightarrow \cancel{x} \cancel{v} \cancel{\uparrow} y$$