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Slide 1 Hal. 16

$$z_1 = 3 + 4i ; z_2 = 2i$$

$$|z_1| = \sqrt{3^2 + 4^2}$$
$$= 5$$

$$\theta_1 = \tan^{-1} \left(\frac{4}{3} \right)$$

$$\theta_1 = 53,1^\circ$$

$$z_1 = 5 e^{i53,1^\circ}$$

$$\frac{z_1}{z_2} = \frac{5 e^{i53,1^\circ}}{2 e^{i90^\circ}}$$

$$= \frac{5}{2} e^{-i36,9^\circ}$$

$$= 2,5 e^{-i36,9^\circ}$$

$$|z_2| = \sqrt{0^2 + 2^2}$$
$$= 2$$

$$\theta_2 = \tan^{-1} \left(\frac{2}{0} \right)$$

$$\theta_2 = 90^\circ$$

$$z_2 = 2 e^{i90^\circ}$$

Slide 2 Hal. 9

$$3 \leq |2 - 1 - i| < 5$$

$$3 \leq |2 - (1 + i)| < 5 \rightarrow \text{Titik pusat : } (1, 1)$$

