











Complex #'s Rectangular Pular Form (Trigonometric Form) X+ yi rcos + rsin Di  $= r \left( \cos \theta + i \sin \theta \right)$ 2,7-50 = r cis O  $2 \operatorname{cis} 4 \operatorname{s}^2 = 2 (\cos 4 \operatorname{s}^2 + \operatorname{csin} 4 \operatorname{s}^2)$ -1 eal 3 ( WS 30° + ism 30°) 100 Rect -> Pular -5+5i  $3\left(\begin{array}{c}1\overline{3}\\\overline{a}\end{array}+i\frac{1}{2}\right)$  $\frac{s}{-s} = \frac{2s+2s=r^2}{\sqrt{so=\sqrt{r^2}}}$  $= 3\sqrt{3} + \frac{3}{2}i$ tan 0 = == = -1  $\Theta = 135^{\circ}$ 5Va (cos 135°+ isin 135°)

March 20, 2023

