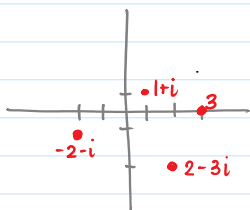


②



④ $2(\cos \frac{3\pi}{2} + i \sin \frac{3\pi}{2})$

⑥ $2(\cos \frac{\pi}{6} + i \sin \frac{\pi}{6})$

⑦ $4(\cos \frac{2\pi}{3} + i \sin \frac{2\pi}{3})$

⑪ $3(\cos \frac{\pi}{6} + i \sin \frac{\pi}{6})$

⑫ $4(\cos \frac{5\pi}{4} + i \sin \frac{5\pi}{4})$

⑭ $-4\sqrt{3} - 4i$

⑮ $\frac{5\sqrt{2}}{2} + \frac{5\sqrt{2}}{2}i$

⑰ $-\frac{\sqrt{6}}{2} - \frac{\sqrt{2}}{2}i$

⑳ $\frac{\sqrt{2}}{2}(\cos 99^\circ + i \sin 99^\circ)$

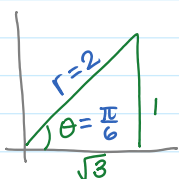
㉑ $15(\cos \frac{23\pi}{12} + i \sin \frac{23\pi}{12})$

㉓ $\frac{2}{3}(\cos 30^\circ - i \sin 30^\circ)$

㉖ $\cos \frac{\pi}{4} + i \sin \frac{\pi}{4}$

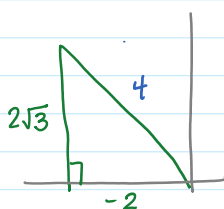
Solutions

⑥



$2(\cos \frac{\pi}{6} + i \sin \frac{\pi}{6})$

⑦



$r = \sqrt{(-2)^2 + (2\sqrt{3})^2} = \sqrt{4 + 4(3)} = \sqrt{16} = 4$

$\tan \theta = \frac{2\sqrt{3}}{-2} = -\sqrt{3} \Rightarrow \theta = \frac{2\pi}{3}$

$4(\cos \frac{2\pi}{3} + i \sin \frac{2\pi}{3})$

⑭

$8(\cos 210 + i \sin 210)$
 $8(-\frac{\sqrt{3}}{2} + i(-\frac{1}{2})) = -4\sqrt{3} - 4i$

⑮

$5(\frac{\sqrt{2}}{2} + \frac{\sqrt{2}}{2}i) = \frac{5\sqrt{2}}{2} + \frac{5\sqrt{2}}{2}i$

⑰

$\sqrt{2}(-\frac{\sqrt{3}}{2} - \frac{1}{2}i) = -\frac{\sqrt{6}}{2} - \frac{\sqrt{2}}{2}i$