



$$|9. e^{320} = \cos 3\theta + i \sin 3\theta$$

$$(e^{10})^3 = (\cos 9 + i \sin 9)^3$$

$$= \cos^3 \theta + \cos^2 \theta \cdot i \sin 9 + 3\cos (i \sin 9)^2 + \sin^3 \theta i^3$$

$$= (\cos^3 - 3\cos \sin 6) + (-\sin^3 \theta + 3\cos^2 \theta \sin \theta) i$$

$$cos30 = cos30 - 3cos20 \cdot sin20$$
  
 $sin30 = -sin30 + 3cos20 - sin20$ 



