

Course Key: aims 2029 2907

[webassign.net](http://webassign.net)

Practice Test 3 is in the Chapter 4 Videos directory. I'm only testing over chapters 1 - 3, so after #6 on that Test 3, it's all Chapter 4 and will be bonus, at most.

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So to speak

$$\left( 2 \left( \cos \frac{\pi}{4} + i \sin \frac{\pi}{4} \right) \right) \left( 3 \left( \cos \frac{2\pi}{3} + i \sin \frac{2\pi}{3} \right) \right) = zw$$

$\frac{\pi}{4} + \frac{2\pi}{3} = \frac{3+8}{12} \pi$

$\left( -\frac{3}{2} + \frac{3\sqrt{3}}{2} i \right) \left( \frac{2}{\sqrt{2}} + \frac{2}{\sqrt{2}} i \right)$

De Moivre's Theorem:

$$\Rightarrow zw = 6 \left( \cos \frac{11\pi}{12} + i \sin \frac{11\pi}{12} \right)$$