### **CHECK 8.3 EVEN ANSWERS:**

$$78. \ 2\left(\cos\frac{\pi}{18} + i\sin\frac{\pi}{18}\right)$$

82. 
$$2^{\frac{1}{6}} \left( \cos \frac{\pi}{12} + i \sin \frac{\pi}{12} \right)$$

84. 
$$\left(\cos\frac{\pi}{10} + i\sin\frac{\pi}{10}\right)$$

Do NOT graph #78, 82, 84

Leave answer in polar form since not easily evaluated with unit circle.

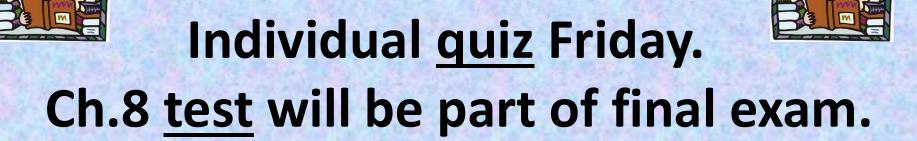
$$(78) (4/3 + 41)^{\frac{1}{3}} = (\cos \theta + i \sin \theta)^{\frac{1}{3}}$$

$$= v^{\frac{1}{3}} (\cos \frac{1}{3}\theta + i \sin \frac{1}{3}\theta)$$

$$\frac{1}{5} \Rightarrow (0+1)$$

$$r = \int$$

$$\tan \theta = \frac{1}{5}$$



No calculator.

Memorize unit circle and radian values. Memorize polar/rectangular formulas.

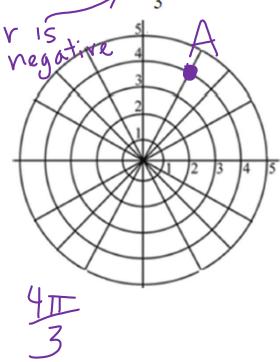
## **Check answers to review sheet#1:**

#### Ch.8 Review#1—NO CALCULATOR!!

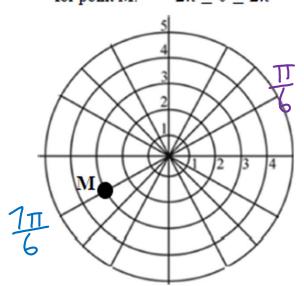
Name:

Per:

1. Graph the point  $(-4, \frac{4\pi}{3})$  and label it A.



2. Fill in each blank to name four possible coordinates for point M.  $-2\pi \le \theta \le 2\pi$ 

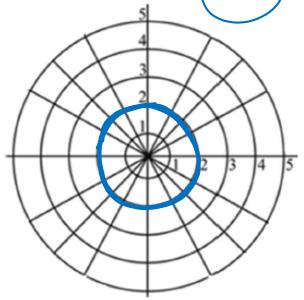


a. 
$$(3, \frac{7\pi}{6})$$

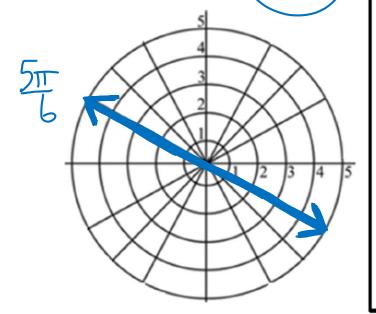
b. 
$$(3, \frac{-5\pi}{6})$$

## **Check answers to review sheet#1:**

3. Graph the polar equation r = 2



4. Graph the polar equation  $\theta = \frac{5\pi}{6}$ 



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