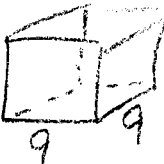


BE-Alg. 2 | WEDNESDAY 2-23-11

① What is the surface area of  
a 9 inch cube?

② Find the circumference and area  
of a circle with radius = 12 m.  
(EXACT ANSWERS)

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①  Each face  $\Rightarrow 9 \cdot 9 = 81 \text{ in}^2$   
 $\times 6 \text{ faces}$   
 $\boxed{486 \text{ in}^2}$

②  $C = 2\pi r = 2\pi(12) = \boxed{24\pi \text{ m}}$

$A = \pi r^2 = \pi(12)^2 = \boxed{144\pi \text{ m}^2}$

Alg. 2 Homework Review: Pg 774 #12, 15

⑫  $y = 3 \sin [2(\theta - 30^\circ)] + 10$

Amp.  $\nearrow$

Period  $= \frac{360^\circ}{|2|} = 180^\circ$

horizontal SHIFT (PHASE SHIFT)  $\nearrow$

VERTICAL SHIFT  $\uparrow$   
MIDLINE  $\Rightarrow y = 10$

(see ATTACHED graph)

⑮  $y = \frac{2}{3} \cos \left[ \frac{1}{2} (\theta + \frac{\pi}{6}) \right] - 2$

Amp  $\nearrow$

Period  $= \frac{2\pi}{|\frac{1}{2}|} = 4\pi$  or  $720^\circ$

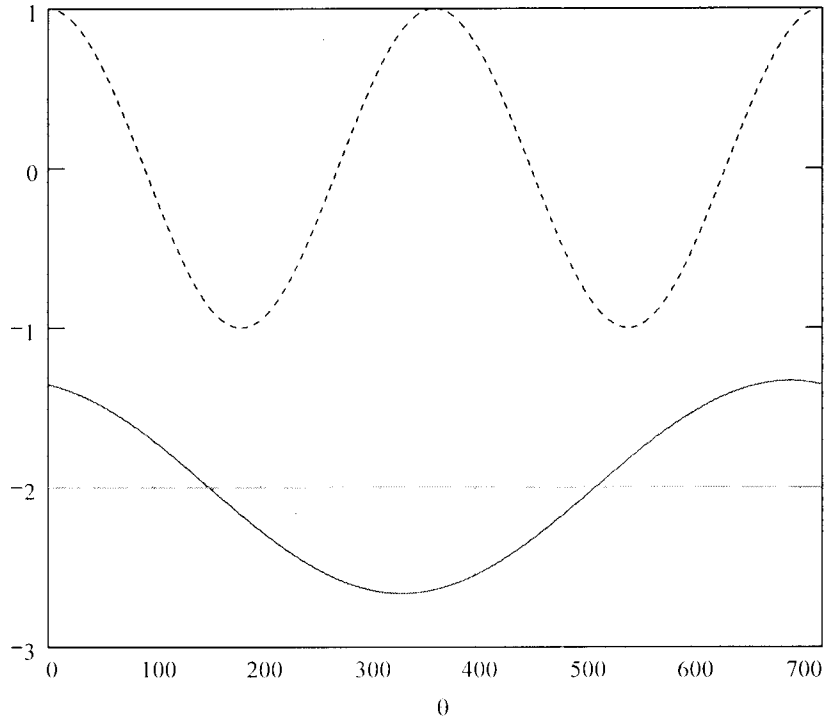
horizontal SHIFT  $\leftarrow 30^\circ$

VERTICAL SHIFT  $\downarrow$

(see ATTACHED graph)

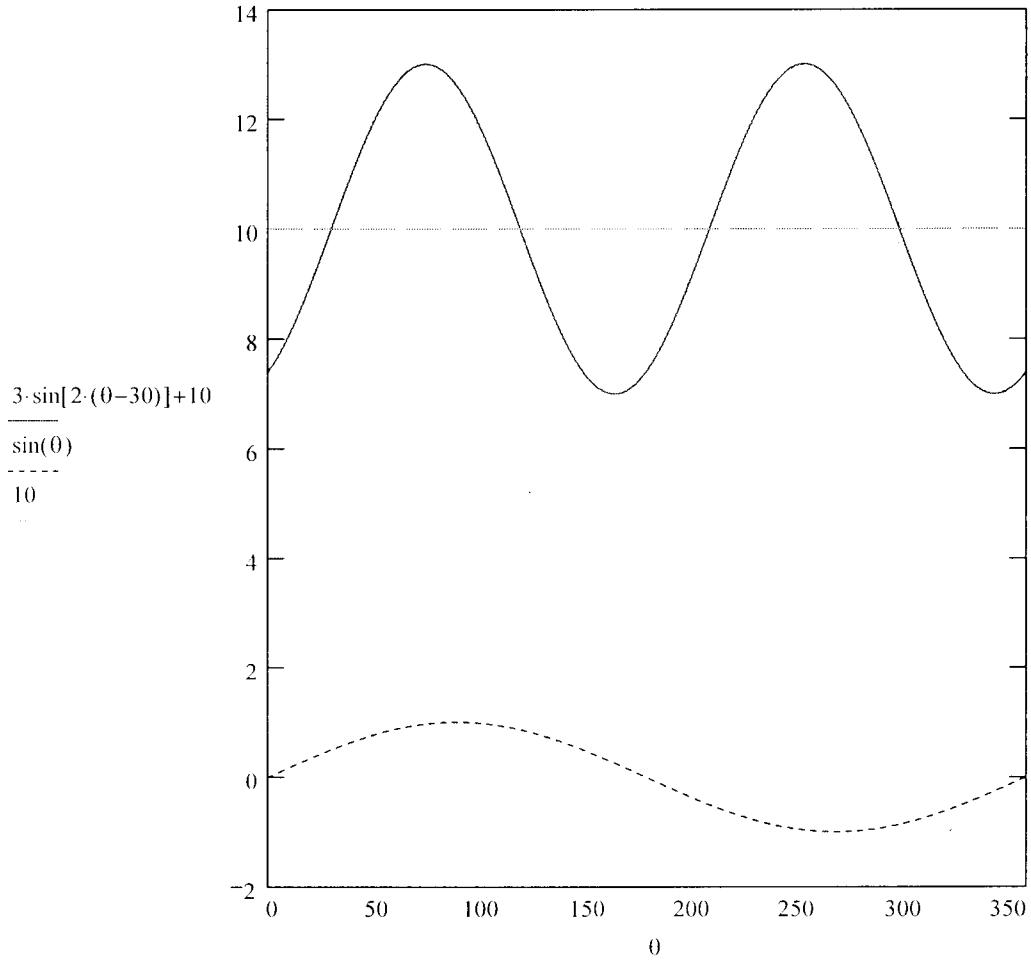
Page 774#15

$$\frac{\left(\frac{2}{3}\right) \cos[0.5 \cdot (\theta + 30)] - 2}{\cos(\theta)}$$



$$\sin(\theta) := \sin(\theta \cdot \text{deg})$$

Page 774 #12



## CLASSWORK / PRACTICE:

Page 807

- Read CONCEPT SUMMARY AND EXAMPLE
  - Do # 24-27.
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