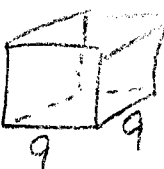


BE-Alg. 2

Friday 2-24-12

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)

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

Amp \nearrow

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

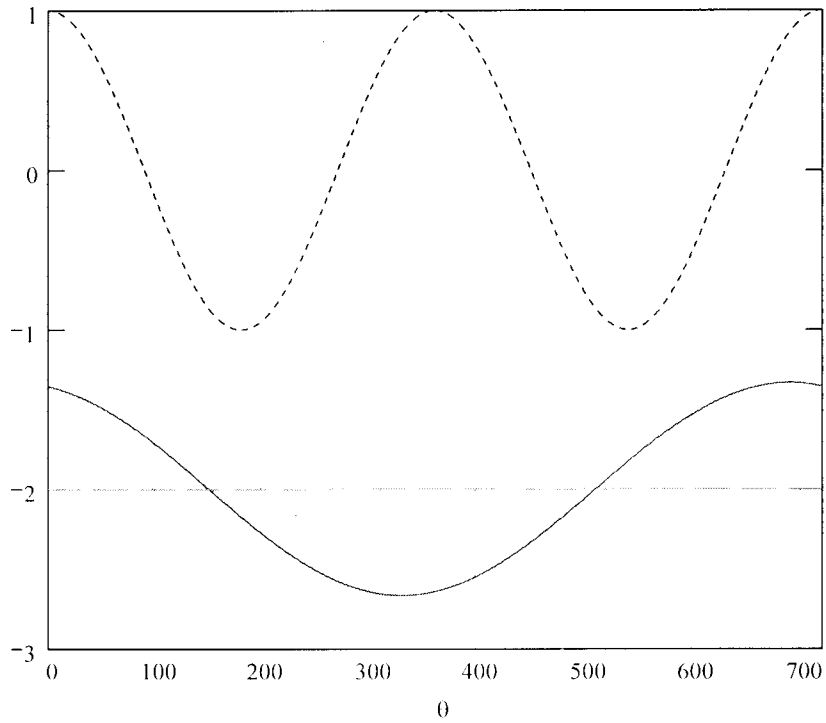
horizontal SHIFT \nearrow
 30°

VERTICAL SHIFT \downarrow

(see ATTACHED graph)

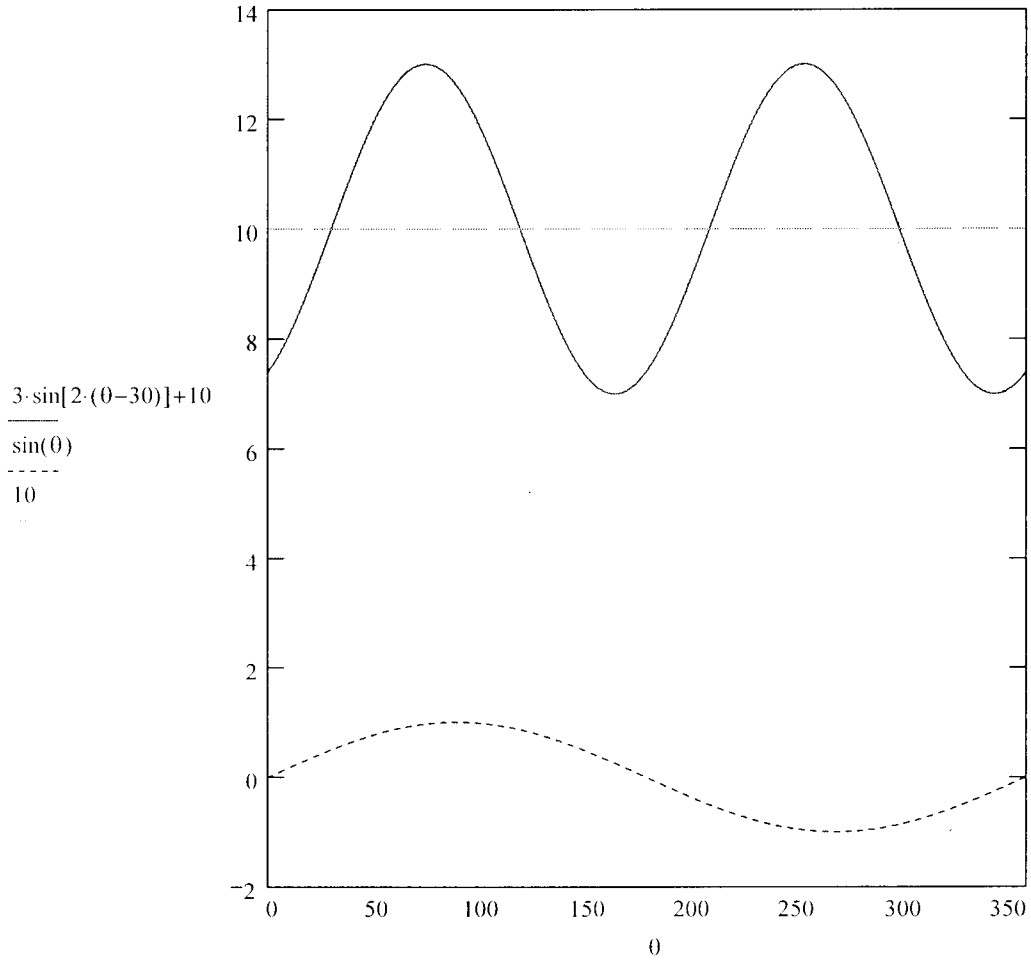
Page 774#15

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



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

Page 774 #12



CLASSWORK

Q3 OBQ7
