Math 1330
Homework 13 (4.2)

Problem 4.2.4 refers to problem 4 in Chapter 4, Section 2 in the online text. Record your answers to all the problems in the EMCF titled "**Homework 13**."

1.   Problem 4.2.4

   A. $\dfrac{10}{51}$ B. $\dfrac{51}{10}$ C.   51   D.   none of these

2.   Problem 4.2.8 b

   A. $\dfrac{\pi}{2}$ B. π C. 2π D.   none of these

3.   Problem 4.2.10

   A. $\dfrac{\pi}{4}, \quad \dfrac{\pi}{6}, \quad \dfrac{2\pi}{3}$

   B. $\dfrac{\pi}{3}, \quad \dfrac{\pi}{4}, \quad \dfrac{\pi}{6}$

   C. $\dfrac{\pi}{6}, \quad \dfrac{\pi}{3}, \quad \dfrac{5\pi}{6}$

   D. $\dfrac{\pi}{4}, \quad \dfrac{\pi}{6}, \quad \dfrac{5\pi}{3}$

   E. $\dfrac{\pi}{4}, \quad \dfrac{\pi}{3}, \quad \dfrac{5\pi}{6}$

4.   Problem 4.2.12

   A. $\dfrac{5\pi}{6}, \quad \dfrac{3\pi}{2}, \quad \dfrac{5\pi}{4}$

   B. $\dfrac{7\pi}{6}, \quad \dfrac{3\pi}{2}, \quad \dfrac{5\pi}{3}$

   C. $\dfrac{7\pi}{6}, \quad \pi, \quad \dfrac{4\pi}{3}$

   D. $\dfrac{7\pi}{6}, \quad \pi, \quad \dfrac{7\pi}{4}$

   E. $\dfrac{7\pi}{6}, \quad \dfrac{3\pi}{2}, \quad \dfrac{7\pi}{4}$

5.   Problem 4.2.16

   A.   60°,   210°,   215°   B.   90°,   150°,   315°

   C.   90°,   140°,   225°   D.   90°,   210°,   225°

   E.   60°,   210°,   225°

6.   Problem 4.2.18

   A.   20°,   140°,   359°   B.   20°,   70°,   265°

   C.   40°,   140°,   636°   D.   20°,   70°,   318°

   E.   40°,   70°,   318°

7.   Problem 4.2.22

   A. $\dfrac{37\pi}{72}$ B. $\dfrac{4\pi}{17}$ C. $\dfrac{35\pi}{72}$ D. $\dfrac{13\pi}{17}$

8.   Problem 4.2.26

   A.   10 cm   B. 10π cm   C. 15π cm   D. $\dfrac{5\pi}{2}$ cm

9.   Problem 4.2.30

   A. 50π in   B. $\dfrac{10\pi}{3}$ in   C.   50 in   D. $\dfrac{20\pi}{3}$ in

10.   Problem 4.2.38

   A. 15π ft   B. $\dfrac{13\pi}{4}$ ft   C. 30π ft   D. $\dfrac{15\pi}{2}$ ft

11.   Problem 4.2.40

   A.   20 in   B. 20π in   C. $\dfrac{1}{20}$ in   D. $\dfrac{125\pi^2}{9}$ in

12.   Problem 4.2.42

   A.   30 cm   B. 30π cm   C. $\dfrac{\pi}{30}$ cm   D. $\dfrac{30}{\pi}$ cm

13.   Problem 4.2.48

       A. $\dfrac{21\pi}{4}$ feet

       B. $\dfrac{12+21\pi}{4}$ feet

       C. $\dfrac{21\pi}{12}$ feet

       D. $\dfrac{288+21\pi}{12}$ feet

       E. $\dfrac{24+21\pi}{4}$ feet

14.   Problem 4.2.54

       A. $\dfrac{39\pi}{4}$ cm^2 B. 108π cm^2

       C. 36π cm^2 D. 27π cm^2

       E. $\dfrac{27\pi}{2}$ cm^2

15.   Problem 4.2.60

       A. 120 cm^2 B. 216 cm^2

       C. 120π cm^2 D. 10π cm^2

       E. 60π cm^2