

DAY 1 HOMEWORK: p. 610-611 #1-27 odd

Express each degree measure in radians. Leave your answer in terms of π .

1. 45° $\frac{\pi}{4}$

3. 60° $\frac{\pi}{3}$

5. -120° $-\frac{2\pi}{3}$

7. 150° $\frac{5\pi}{6}$

9. -330° $-\frac{11\pi}{6}$

11. -315° $-\frac{7\pi}{4}$

Express each radian measure in degrees. In exercises 25-27, leave your answers in terms of π .

13. $\frac{\pi}{6}$ 30°

15. $\frac{\pi}{3}$ 60°

17. $\frac{4\pi}{3}$ 240°

19. $-\frac{7\pi}{6}$ -210°

21. 3π 540°

23. $-\frac{7\pi}{2}$ -630°

25. 4 $\left(\frac{720^\circ}{\pi}\right)$

27. -2 $\left(\frac{-360^\circ}{\pi}\right)$

DAY 2 HOMEWORK: p. 611 #45-56 all

Show work on separate paper.

Find the missing measures. Angle θ is measured in radians. Use the area formula $A = \frac{1}{2}r^2\theta$

45. $r = 4, \theta = 1, s = \underline{\hspace{2cm}}, A = \underline{\hspace{2cm}}$

46. $r = 5, \theta = 2.5, s = \underline{\hspace{2cm}}, A = \underline{\hspace{2cm}}$

47. $r = 4, \theta = 12, s = \underline{\hspace{2cm}}, A = \underline{\hspace{2cm}}$

48. $r = 5, s = 30, \theta = \underline{\hspace{2cm}}, A = \underline{\hspace{2cm}}$

49. $r = 5, A = 15, \theta = \underline{\hspace{2cm}}, s = \underline{\hspace{2cm}}$

50. $r = 2, A = 6, \theta = \underline{\hspace{2cm}}, s = \underline{\hspace{2cm}}$

51. $s = 10, \theta = 2.5, r = \underline{\hspace{2cm}}, A = \underline{\hspace{2cm}}$

52. $s = 1.2, \theta = 0.5, r = \underline{\hspace{2cm}}, A = \underline{\hspace{2cm}}$

53. $r = 2, A = 3, s = \underline{\hspace{2cm}}, \theta = \underline{\hspace{2cm}}$

54. $r = 8, A = 6, s = \underline{\hspace{2cm}}, \theta = \underline{\hspace{2cm}}$

55. $A = 8, \theta = 4, r = \underline{\hspace{2cm}}, s = \underline{\hspace{2cm}}$

56. $A = 6, \theta = 3, r = \underline{\hspace{2cm}}, s = \underline{\hspace{2cm}}$

p. 610 #1-27 odd, 45-55 odd

$$\textcircled{1} \quad \frac{45^\circ}{180^\circ} \Big| \frac{\pi}{180^\circ} = \left(\frac{\pi}{4} \right)$$

$$\textcircled{3} \quad \frac{60^\circ}{180^\circ} \Big| \frac{\pi}{180^\circ} = \left(\frac{\pi}{3} \right)$$

$$\textcircled{5} \quad \frac{-120^\circ}{180^\circ} \Big| \frac{\pi}{180^\circ} = \left(\frac{-2\pi}{3} \right)$$

$$\textcircled{7} \quad \frac{150^\circ}{180^\circ} \Big| \frac{\pi}{180^\circ} = \left(\frac{5\pi}{6} \right)$$

$$\textcircled{9} \quad \frac{-330^\circ}{180^\circ} \Big| \frac{\pi}{180^\circ} = \left(\frac{-11\pi}{6} \right)$$

$$\textcircled{11} \quad \frac{-315^\circ}{180^\circ} \Big| \frac{\pi}{180^\circ} = \left(\frac{-7\pi}{4} \right)$$

$$\textcircled{13} \quad \frac{\pi}{6} \Big| \frac{180^\circ}{\pi} = \left(30^\circ \right)$$

$$\textcircled{15} \quad \frac{\pi}{3} \Big| \frac{180^\circ}{\pi} = \left(60^\circ \right)$$

$$\textcircled{17} \quad \frac{4\pi}{3} \Big| \frac{180^\circ}{\pi} = \left(240^\circ \right)$$

$$\textcircled{19} \quad \frac{-7\pi}{6} \Big| \frac{180^\circ}{\pi} = \left(-210^\circ \right)$$

$$\textcircled{21} \quad \frac{3\pi}{2} \Big| \frac{180^\circ}{\pi} = \left(540^\circ \right)$$

$$\textcircled{23} \quad \frac{-7\pi}{2} \Big| \frac{180^\circ}{\pi} = \left(-630^\circ \right)$$

$$\textcircled{25} \quad \frac{4}{\pi} \Big| \frac{180^\circ}{\pi} = \left(\frac{720^\circ}{\pi} \right)$$

$$\textcircled{27} \quad \frac{-2}{\pi} \Big| \frac{180^\circ}{\pi} = \left(\frac{-360^\circ}{\pi} \right)$$