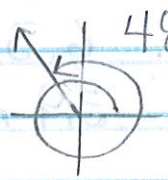
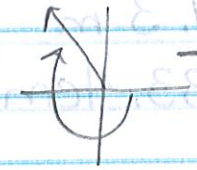
HW #27 p. 238 11-31, 43-55, 63

11. $\frac{5\pi}{4}$ 12. $\frac{-11\pi}{12}$ 13. $\frac{-\pi}{4}$ 14. $120°$

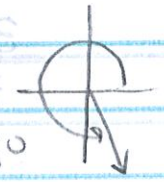
15. $450°$ 16. $\frac{-\pi}{4}$ 17. $-210°$

18. $120° + 360°n$

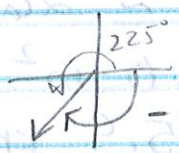




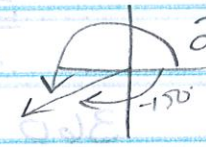
19. $-75° + 360°n$

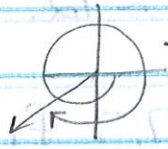


20. $225° + 360°n$

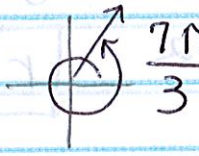


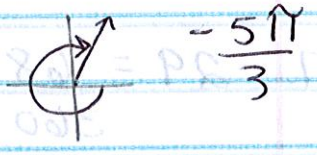
21. $-150° + 360°n$



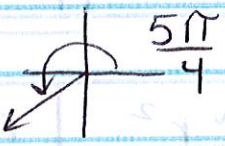


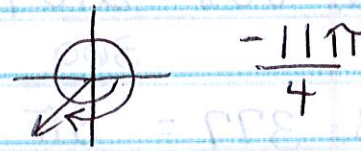
22. $\frac{\pi}{3} + 2\pi n$



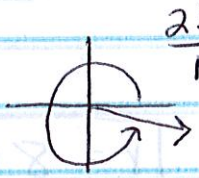


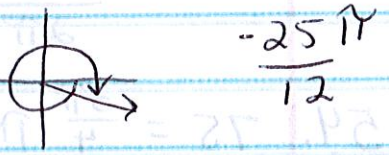
23. $-\frac{3\pi}{4} + 2\pi n$



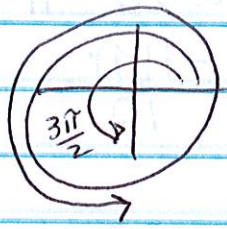


24. $-\frac{\pi}{12} + 2\pi n$





25. $\frac{3\pi}{2} + 2\pi n$



$\frac{7\pi}{2}$ $-\frac{\pi}{2}$

26. $396°$

27. 1.3 m 28. 6.3 in 29. 5.2 yd

30. 33.4 cm 31. 3.9 mi

43. 2.0 in^2 44. 24.2 m^2 45. 90.5 yd^2

46. 145.9 km^2 47. 500.5 ft^2 48. 247.7 cm^2

48. ~~≈ 12.7 in^2~~ $\frac{360}{2} = 18$ $\frac{18}{360} \cdot \pi(9)^2$

50. ≈ 37.7 ft^2 $\frac{360}{3} = 120$ $\frac{120}{360} \cdot \pi(6)^2$

51. $29 = \frac{68}{360}\pi r^2$ $r = 7$ ft

52. $808 = \frac{210}{360}\pi r^2$ $r = 21$ cm

53. $377 = \frac{\frac{5\pi}{3}}{2\pi}\pi r^2$ $r = 12$ in

54. $75 = \frac{\frac{3\pi}{4}}{2\pi}\pi r^2$ $r = 8$ m

63. a. ≈ 18.8 in

b. ≈ 5.2 ft ≈ 62.8 in

55. a. $0 < \theta < \frac{\pi}{2}$

b. $\frac{\pi}{2} < \theta < \pi$

c. $\pi < \theta < \frac{3\pi}{2}$

d. $\frac{3\pi}{2} < \theta < 2\pi$