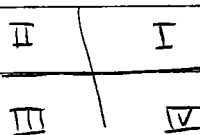


6.1 Homework

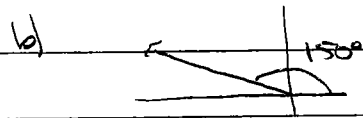
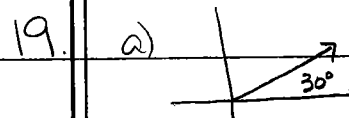
pg. 452 1-7, 11-35 EOO,
61-83

1. Trigonometry
2. angle
3. coterminal
4. degree
5. acute, obtuse
6. Complementary, Supplementary
7. Radian

11. 200°



15. a) I b) IV



23. a) 405° , -315° b) 324° , -396°

27. a) $54 + \frac{45}{60} = \boxed{54.75^\circ}$ b) $-128 + \frac{30}{60} = \boxed{-128.5}$

31. a) $240^\circ \cdot 6(60)' = 240^\circ 36'$
b) $-145^\circ \cdot 8(60)' = -145^\circ 48'$

35. a) complement = 72° Supplement = 162°
b) Complement = 5° Supplement = 95°

61. a) Complement: $\frac{\pi}{2} - \frac{\pi}{12} = \frac{5\pi}{12}$
b) Supplement: $\pi - \frac{\pi}{12} = \frac{11\pi}{12}$

63. a) $30 \cdot \frac{\pi}{180} = \boxed{\frac{\pi}{6}}$ b) $45 \cdot \frac{\pi}{180} = \boxed{\frac{\pi}{4}}$

65. a) $-20 \cdot \frac{\pi}{180} = \boxed{-\frac{\pi}{9}}$ b) $-60 \cdot \frac{\pi}{180} = \boxed{-\frac{\pi}{3}}$

$$67. a) \frac{3\pi}{2} \cdot \frac{180}{\pi} = \boxed{270^\circ}$$

$$b) \frac{7\pi}{6} \cdot \frac{180}{\pi} = \boxed{210^\circ}$$

$$69. a) \frac{5\pi}{4} \cdot \frac{180}{\pi} = \boxed{225^\circ}$$

$$b) -\frac{7\pi}{3} \cdot \frac{180}{\pi} = \boxed{-420^\circ}$$

$$71. 45^\circ = \boxed{.785}$$

$$73. -216.35^\circ = \boxed{3.776}$$

$$75. 532^\circ \cdot \frac{\pi}{180} = \boxed{9.285}$$

$$77. -.83 \cdot \frac{\pi}{180} = \boxed{-.014}$$

$$79. \frac{\pi}{7} \cdot \frac{180}{\pi} = \boxed{25.714^\circ}$$

$$81. \frac{15\pi}{8} \cdot \frac{180}{\pi} = \boxed{337.5^\circ}$$

$$83. -2 \cdot \frac{180}{\pi} = \boxed{-114.592^\circ}$$