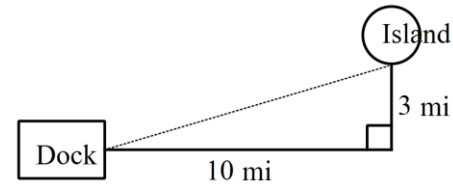


SM2H 8.3 answers

1. A=45
B=45
C=90
a=3
b=3
c=3 $\sqrt{2}$
2. A=60
B=30
C=90
a= $\frac{11\sqrt{3}}{2}$ or 9.53
b=11/2 or 5.5
c=11
3. Angle=45, ref=45
4. Angle = 67, ref = 67
5. Angle = 140, ref = 40
6. Angle = 210, ref= 30
7. Angle = 257, ref = 77
8. Angle = 305, ref = 55
9. Angle = 110, ref = 70
10. Angle = 270, no ref angle
11. Angle = 335, ref = 25
12. ☺
13. $\sin \theta = \frac{4\sqrt{17}}{17}$
 $\cos \theta = \frac{\sqrt{17}}{17}$
 $\tan \theta = 4$
14. $\sin \theta = -\frac{\sqrt{2}}{2}$
 $\cos \theta = \frac{\sqrt{2}}{2}$
 $\tan \theta = -1$

15. $\sin \theta = -\frac{\sqrt{5}}{5}$
 $\cos \theta = -\frac{\sqrt{5}}{5}$
 $\tan \theta = 2$
Correct answer for
 $\cos \theta = \frac{-2\sqrt{5}}{5}$
16. $\sin \theta = -\frac{3\sqrt{34}}{34}$
 $\cos \theta = \frac{5\sqrt{34}}{34}$
 $\tan \theta = -\frac{3}{5}$
17. $\sin \theta = \frac{2\sqrt{53}}{53}$
 $\cos \theta = \frac{7\sqrt{53}}{53}$
 $\tan \theta = \frac{2}{7}$
18. $\sin \theta = \frac{12}{13}$
 $\cos \theta = -\frac{5}{13}$
 $\tan \theta = -\frac{12}{5}$
19. $\sin \theta = -\frac{\sqrt{2}}{2}$
 $\cos \theta = -\frac{\sqrt{2}}{2}$
 $\tan \theta = 1$

20. $\sin \theta = \frac{9\sqrt{82}}{82}$
 $\cos \theta = -\frac{\sqrt{82}}{82}$
 $\tan \theta = -9$
21. $\sin \theta = \frac{2\sqrt{5}}{5}$
 $\cos \theta = \frac{\sqrt{5}}{5}$
 $\tan \theta = 2$
22. 75.9638
23. 315
24. 243.4349
25. 329.0362
26. 15.9454
27. 112.6199
28. 225
29. 96.3402
30. 63.4349
- 31a.



- 31b. 16.6992
- 31c. 10.44 mi