TRIGONOMETRY II

(Note: Blank answers indicate a trigonometric identity proof, for which solutions are not provided here)

1 A
2 A
3 B
4 1.91, 4.37
5 B
6 B
7 C
8 D
9 B
10 B
11 B
12
13 D
14 D
15 B
16
17 D
18 B
19 A
20
21 D
22 D
23 C
24
25 A
26 D
27 C
28 A
29 B
30
31 B
32 C
33 A
34
35 B
36 C
37 D
38 A
39
40 D
41 C
42 C
43
44
45 A
46 A
47 A
48
49 D
50 C
51 A
52 B
53 $\frac{\pi}{3}+2n\pi, \frac{5\pi}{3}+2n\pi, \pi+2n\pi, \quad n\in I$
54 A
55 D
56 C
57 B
58
59 A
60 A
61 C
62 D
63
64 A
65 D
66 A
67 C
68 A
69 D
70 0.84, 3.14, 5.44
71
72 B
73 C
74 C
75 D
76 a) $0, \frac{\pi}{6}, \pi, \frac{5\pi}{6}$
b) $\frac{\pi}{6}+2n\pi, \frac{5\pi}{6}+2n\pi, n\pi, \quad n\in I$
77 A
78 C
79 C
80 $0, \frac{\pi}{6}, \pi, \frac{5\pi}{6}$
81 D
82 D
83
84 B
85 a) $\frac{2\pi}{3}, \frac{4\pi}{3}, \pi$
b) $\frac{2\pi}{3}+2n\pi, \frac{4\pi}{3}+2n\pi, \pi+2n\pi, \quad n\in I$
86
87 B
88 A
89 $0.84+2n\pi, 5.44+2n\pi, n\in I$
90
91 D
92 B
93 C
94 B
95 C
96 $0.23+\frac{n\pi}{2}, 1.34+\frac{n\pi}{2}, n\in I$
97
98 D
99 B
100 B
101 C
102 $0, \pi, \frac{4\pi}{3}, \frac{5\pi}{3}$
103 $0.18+\frac{n\pi}{3}, n\in I$
104
105 A
106 A
107 D
108 B
109 C
110 A
111 B
112 A
113 D
114 B
115 $\frac{\pi}{6}, \frac{5\pi}{6}, \frac{3\pi}{2}$
116 $-\frac{\pi}{6}, 0, \frac{\pi}{6}$
117 a) π
b) $\pi+6n\pi, 2\pi+6n\pi, \ n\in I$
118 B
119 $\frac{\pi}{2}+2n\pi, \frac{3\pi}{2}+2n\pi, 2n\pi, \quad n\in I$
120 $0.26+\frac{2n\pi}{3}, 0.79+\frac{2n\pi}{3}, n\in I$
121 $0.73+2n\pi, \ 2.41+2n\pi, \frac{7\pi}{6}+2n\pi, \ \frac{11\pi}{6}+2n\pi, n\in I$
122 $\frac{\pi}{2}+2n\pi, \ \frac{3\pi}{2}+2n\pi$
$\frac{\pi}{4}+2n\pi, \ \frac{5\pi}{4}+2n\pi, n\in I$
123 D
124 B
125 D
126
127
128 A
129 A
130 D
131
132 $\frac{7\pi}{6}, \frac{11\pi}{6}$
133
134 a) $\frac{4\sqrt{5}-6}{15}$
b) $\frac{1}{9}$
c) $\frac{3\sqrt{3}-4}{10}$
135 a) $\frac{-29}{13\sqrt{5}}$
b) $\frac{-22}{13\sqrt{5}}$
c) $\frac{120}{119}$