Each of the following complex numbers is given in Cartesian form. Convert them into Polar form and Exponential form.

1. $17 + 17i$
2. $\frac{-28}{9} + \frac{28}{9}i$
3. $-6\sqrt{3} + 6i$
4. $\frac{45}{4} + \frac{45}{4}i$
5. $\frac{41}{4} - \frac{41\sqrt{3}}{4}i$
6. $-6 + 6i$
7. $-41 - 41i$
8. $3 + i3\sqrt{3}$
9. $\frac{-4}{3} - \frac{4\sqrt{3}}{3}i$
10. $\frac{-44}{3} - \frac{44}{3}i$
11. $15 + i15\sqrt{3}$
12. $\frac{7}{5} + \frac{7\sqrt{3}}{5}i$
13. $\frac{49}{8} - \frac{49}{8}i$
14. $\frac{49\sqrt{3}}{5} + \frac{49}{5}i$
15. $-50 + i50\sqrt{3}$
16. $\frac{17\sqrt{3}}{3} + \frac{17}{3}i$
17. $\frac{-20}{3} + \frac{20}{3}i$
18. $\frac{-49}{10} - \frac{49\sqrt{3}}{10}i$
19. $\frac{32}{9} + \frac{32}{9}i$
20. $\frac{7\sqrt{3}}{5} - \frac{7}{5}i$
21. $\frac{-13\sqrt{3}}{2} + \frac{13}{2}i$
22. $-4\sqrt{3} - 4i$
23. $\frac{19}{5} - \frac{19}{5}i$
24. $-21 - i21\sqrt{3}$
25. $\frac{-17\sqrt{3}}{10} + \frac{17}{10}i$
26. $\frac{-8}{5} + \frac{8}{5}i$
27. $14 + i14\sqrt{3}$
28. $-26 + i26\sqrt{3}$
29. $-14\sqrt{3} + 14i$
30. $-42 + 42i$
31. $32 + i32\sqrt{3}$
32. $\frac{13}{5} + \frac{13\sqrt{3}}{5}i$
33. $\frac{22\sqrt{3}}{3} + \frac{22}{3}i$
34. $\frac{8}{9} - \frac{8}{9}i$
35. $\frac{7}{2} - \frac{7}{2}i$
36. $7\sqrt{3} - 7i$
37. $11 - i11\sqrt{3}$
38. $\frac{-3\sqrt{3}}{10} + \frac{3}{10}i$
39. $\frac{-\sqrt{3}}{10} + \frac{1}{10}i$
40. $\frac{-5}{9} + \frac{5}{9}i$
41. $\frac{-40\sqrt{3}}{9} - \frac{40}{9}i$
42. $\frac{-13\sqrt{3}}{2} - \frac{13}{2}i$
43. $\frac{\sqrt{3}}{3} + \frac{1}{3}i$
44. $\frac{-11}{3} + \frac{11\sqrt{3}}{3}i$
45. $-15 - i15\sqrt{3}$
46. $26\sqrt{3} - 26i$
47. $\frac{35}{4} - \frac{35}{4}i$
48. $\frac{37}{6} + \frac{37\sqrt{3}}{6}i$
49. $2 - i2\sqrt{3}$
50. $\frac{-46}{5} - \frac{46\sqrt{3}}{5}i$
51. $\frac{7\sqrt{3}}{6} + \frac{7}{6}i$
52. $\frac{-20\sqrt{3}}{7} + \frac{20}{7}i$
53. $\frac{-9}{4} - \frac{9\sqrt{3}}{4}i$
54. $\frac{-5}{4} - \frac{5\sqrt{3}}{4}i$
55. $\frac{-13}{2} + \frac{13\sqrt{3}}{2}i$
56. $\frac{30\sqrt{3}}{7} + \frac{30}{7}i$
57. $-41\sqrt{3} + 41i$
58. $\frac{-49}{4} + \frac{49\sqrt{3}}{4}i$
59. $-20\sqrt{3} - 20i$
60. $\frac{-7}{9} + \frac{7}{9}i$
61. $\frac{11}{6} - \frac{11\sqrt{3}}{6}i$
62. $\frac{-15}{8} - \frac{15\sqrt{3}}{8}i$
63. $\frac{17}{9} + \frac{17\sqrt{3}}{9}i$
64. $\frac{5}{4} + \frac{5\sqrt{3}}{4}i$
65. $\frac{49\sqrt{3}}{2} - \frac{49}{2}i$
66. $\frac{-46}{3} + \frac{46}{3}i$
67. $\frac{-23}{9} - \frac{23}{9}i$
68. $\frac{-25\sqrt{3}}{7} - \frac{25}{7}i$
69. $\frac{43}{2} - \frac{43}{2}i$
70. $\frac{17}{7} - \frac{17\sqrt{3}}{7}i$
71. $32 + 32i$
72. $4 - 4i$
73. $\frac{-38\sqrt{3}}{9} - \frac{38}{9}i$
74. $\frac{44}{9} + \frac{44\sqrt{3}}{9}i$
75. $9\sqrt{3} + 9i$
76. $\frac{32\sqrt{3}}{9} + \frac{32}{9}i$
77. $\frac{11\sqrt{3}}{5} + \frac{11}{5}i$
78. $\frac{15\sqrt{3}}{8} + \frac{15}{8}i$
79. $\frac{50\sqrt{3}}{7} + \frac{50}{7}i$
80. $\frac{-15\sqrt{3}}{4} - \frac{15}{4}i$
81. $\frac{-5}{9} - \frac{5}{9}i$
82. $\frac{-16\sqrt{3}}{9} + \frac{16}{9}i$
83. $3\sqrt{3} + 3i$
84. $\frac{-23}{9} + \frac{23\sqrt{3}}{9}i$
85. $\frac{50}{3} - \frac{50}{3}i$
86. $\frac{23}{4} + \frac{23}{4}i$
87. $\frac{11}{3} + \frac{11\sqrt{3}}{3}i$
88. $-2 - 2i$
89. $\frac{-27}{2} - \frac{27}{2}i$
90. $\frac{-\sqrt{3}}{2} + \frac{1}{2}i$
91. $\frac{13\sqrt{3}}{6} - \frac{13}{6}i$
92. $-4 + 4i$
93. $10 + 10i$
94. $\frac{25}{4} - \frac{25\sqrt{3}}{4}i$
95. $\frac{23\sqrt{3}}{3} - \frac{23}{3}i$
96. $-8\sqrt{3} - 8i$
97. $\frac{2}{3} + \frac{2\sqrt{3}}{3}i$
98. $\frac{18}{5} + \frac{18}{5}i$
99. $14 - 14i$
100. $\frac{-39}{2} - \frac{39}{2}i$
101. $\frac{26\sqrt{3}}{3} - \frac{26}{3}i$
102. $\frac{-41}{7} + \frac{41\sqrt{3}}{7}i$
103. $-34 - 34i$
104. $\frac{8}{3} + \frac{8}{3}i$
105. $\frac{-9\sqrt{3}}{5} + \frac{9}{5}i$
106. $\frac{-16\sqrt{3}}{3} + \frac{16}{3}i$
107. $\frac{-43}{7} + \frac{43\sqrt{3}}{7}i$
108. $\frac{23}{3} + \frac{23}{3}i$
109. $\frac{21}{10} - \frac{21}{10}i$
110. $-13 - i13\sqrt{3}$
111. $\frac{-35\sqrt{3}}{2} - \frac{35}{2}i$
112. $-38 + i38\sqrt{3}$
113. $\frac{-49\sqrt{3}}{6} + \frac{49}{6}i$
114. $\frac{10}{3} - \frac{10\sqrt{3}}{3}i$

Solutions:

1. $17\sqrt{2}(\cos\frac{\pi}{4}+i\sin\frac{\pi}{4})$ and $17\sqrt{2}e^{\frac{\pi}{4}i}$
2. $\frac{28\sqrt{2}}{9}(\cos\frac{3\pi}{4}+i\sin\frac{3\pi}{4})$ and $\frac{28\sqrt{2}}{9}e^{\frac{3\pi}{4}i}$
3. $12(\cos\frac{5\pi}{6}+i\sin\frac{5\pi}{6})$ and $12e^{\frac{5\pi}{6}i}$
4. $\frac{45\sqrt{2}}{4}(\cos\frac{\pi}{4}+i\sin\frac{\pi}{4})$ and $\frac{45\sqrt{2}}{4}e^{\frac{\pi}{4}i}$
5. $\frac{41}{2}(\cos\frac{5\pi}{3}+i\sin\frac{5\pi}{3})$ and $\frac{41}{2}e^{\frac{5\pi}{3}i}$
6. $6\sqrt{2}(\cos\frac{3\pi}{4}+i\sin\frac{3\pi}{4})$ and $6\sqrt{2}e^{\frac{3\pi}{4}i}$
7. $41\sqrt{2}(\cos\frac{5\pi}{4}+i\sin\frac{5\pi}{4})$ and $41\sqrt{2}e^{\frac{5\pi}{4}i}$
8. $6(\cos\frac{\pi}{3}+i\sin\frac{\pi}{3})$ and $6e^{\frac{\pi}{3}i}$
9. $\frac{8}{3}(\cos\frac{4\pi}{3}+i\sin\frac{4\pi}{3})$ and $\frac{8}{3}e^{\frac{4\pi}{3}i}$
10. $\frac{44\sqrt{2}}{3}(\cos\frac{5\pi}{4}+i\sin\frac{5\pi}{4})$ and $\frac{44\sqrt{2}}{3}e^{\frac{5\pi}{4}i}$
11. $30(\cos\frac{\pi}{3}+i\sin\frac{\pi}{3})$ and $30e^{\frac{\pi}{3}i}$
12. $\frac{14}{5}(\cos\frac{\pi}{3}+i\sin\frac{\pi}{3})$ and $\frac{14}{5}e^{\frac{\pi}{3}i}$
13. $\frac{49\sqrt{2}}{8}(\cos\frac{7\pi}{4}+i\sin\frac{7\pi}{4})$ and $\frac{49\sqrt{2}}{8}e^{\frac{7\pi}{4}i}$
14. $\frac{98}{5}(\cos\frac{\pi}{6}+i\sin\frac{\pi}{6})$ and $\frac{98}{5}e^{\frac{\pi}{6}i}$
15. $100(\cos\frac{2\pi}{3}+i\sin\frac{2\pi}{3})$ and $100e^{\frac{2\pi}{3}i}$
16. $\frac{34}{3}(\cos\frac{\pi}{6}+i\sin\frac{\pi}{6})$ and $\frac{34}{3}e^{\frac{\pi}{6}i}$
17. $\frac{20\sqrt{2}}{3}(\cos\frac{3\pi}{4}+i\sin\frac{3\pi}{4})$ and $\frac{20\sqrt{2}}{3}e^{\frac{3\pi}{4}i}$
18. $\frac{49}{5}(\cos\frac{4\pi}{3}+i\sin\frac{4\pi}{3})$ and $\frac{49}{5}e^{\frac{4\pi}{3}i}$
19. $\frac{32\sqrt{2}}{9}(\cos\frac{\pi}{4}+i\sin\frac{\pi}{4})$ and $\frac{32\sqrt{2}}{9}e^{\frac{\pi}{4}i}$
20. $\frac{14}{5}(\cos\frac{11\pi}{6}+i\sin\frac{11\pi}{6})$ and $\frac{14}{5}e^{\frac{11\pi}{6}i}$
21. $13(\cos\frac{5\pi}{6}+i\sin\frac{5\pi}{6})$ and $13e^{\frac{5\pi}{6}i}$
22. $8(\cos\frac{7\pi}{6}+i\sin\frac{7\pi}{6})$ and $8e^{\frac{7\pi}{6}i}$
23. $\frac{19\sqrt{2}}{5}(\cos\frac{7\pi}{4}+i\sin\frac{7\pi}{4})$ and $\frac{19\sqrt{2}}{5}e^{\frac{7\pi}{4}i}$
24. $42(\cos\frac{4\pi}{3}+i\sin\frac{4\pi}{3})$ and $42e^{\frac{4\pi}{3}i}$
25. $\frac{17}{5}(\cos\frac{5\pi}{6}+i\sin\frac{5\pi}{6})$ and $\frac{17}{5}e^{\frac{5\pi}{6}i}$
26. $\frac{8\sqrt{2}}{5}(\cos\frac{3\pi}{4}+i\sin\frac{3\pi}{4})$ and $\frac{8\sqrt{2}}{5}e^{\frac{3\pi}{4}i}$
27. $28(\cos\frac{\pi}{3}+i\sin\frac{\pi}{3})$ and $28e^{\frac{\pi}{3}i}$
28. $52(\cos\frac{2\pi}{3}+i\sin\frac{2\pi}{3})$ and $52e^{\frac{2\pi}{3}i}$
29. $28(\cos\frac{5\pi}{6}+i\sin\frac{5\pi}{6})$ and $28e^{\frac{5\pi}{6}i}$
30. $42\sqrt{2}(\cos\frac{3\pi}{4}+i\sin\frac{3\pi}{4})$ and $42\sqrt{2}e^{\frac{3\pi}{4}i}$
31. $64(\cos\frac{\pi}{3}+i\sin\frac{\pi}{3})$ and $64e^{\frac{\pi}{3}i}$
32. $\frac{26}{5}(\cos\frac{\pi}{3}+i\sin\frac{\pi}{3})$ and $\frac{26}{5}e^{\frac{\pi}{3}i}$
33. $\frac{44}{3}(\cos\frac{\pi}{6}+i\sin\frac{\pi}{6})$ and $\frac{44}{3}e^{\frac{\pi}{6}i}$
34. $\frac{8\sqrt{2}}{9}(\cos\frac{7\pi}{4}+i\sin\frac{7\pi}{4})$ and $\frac{8\sqrt{2}}{9}e^{\frac{7\pi}{4}i}$
35. $\frac{7\sqrt{2}}{2}(\cos\frac{7\pi}{4}+i\sin\frac{7\pi}{4})$ and $\frac{7\sqrt{2}}{2}e^{\frac{7\pi}{4}i}$
36. $14(\cos\frac{11\pi}{6}+i\sin\frac{11\pi}{6})$ and $14e^{\frac{11\pi}{6}i}$
37. $22(\cos\frac{5\pi}{3}+i\sin\frac{5\pi}{3})$ and $22e^{\frac{5\pi}{3}i}$
38. $\frac{3}{5}(\cos\frac{5\pi}{6}+i\sin\frac{5\pi}{6})$ and $\frac{3}{5}e^{\frac{5\pi}{6}i}$
39. $\frac{1}{5}(\cos\frac{5\pi}{6}+i\sin\frac{5\pi}{6})$ and $\frac{1}{5}e^{\frac{5\pi}{6}i}$
40. $\frac{5\sqrt{2}}{9}(\cos\frac{3\pi}{4}+i\sin\frac{3\pi}{4})$ and $\frac{5\sqrt{2}}{9}e^{\frac{3\pi}{4}i}$
41. $\frac{80}{9}(\cos\frac{7\pi}{6}+i\sin\frac{7\pi}{6})$ and $\frac{80}{9}e^{\frac{7\pi}{6}i}$
42. $13(\cos\frac{7\pi}{6}+i\sin\frac{7\pi}{6})$ and $13e^{\frac{7\pi}{6}i}$
43. $\frac{2}{3}(\cos\frac{\pi}{6}+i\sin\frac{\pi}{6})$ and $\frac{2}{3}e^{\frac{\pi}{6}i}$
44. $\frac{22}{3}(\cos\frac{2\pi}{3}+i\sin\frac{2\pi}{3})$ and $\frac{22}{3}e^{\frac{2\pi}{3}i}$
45. $30(\cos\frac{4\pi}{3}+i\sin\frac{4\pi}{3})$ and $30e^{\frac{4\pi}{3}i}$
46. $52(\cos\frac{11\pi}{6}+i\sin\frac{11\pi}{6})$ and $52e^{\frac{11\pi}{6}i}$
47. $\frac{35\sqrt{2}}{4}(\cos\frac{7\pi}{4}+i\sin\frac{7\pi}{4})$ and $\frac{35\sqrt{2}}{4}e^{\frac{7\pi}{4}i}$
48. $\frac{37}{3}(\cos\frac{\pi}{3}+i\sin\frac{\pi}{3})$ and $\frac{37}{3}e^{\frac{\pi}{3}i}$
49. $4(\cos\frac{5\pi}{3}+i\sin\frac{5\pi}{3})$ and $4e^{\frac{5\pi}{3}i}$
50. $\frac{92}{5}(\cos\frac{4\pi}{3}+i\sin\frac{4\pi}{3})$ and $\frac{92}{5}e^{\frac{4\pi}{3}i}$
51. $\frac{7}{3}(\cos\frac{\pi}{6}+i\sin\frac{\pi}{6})$ and $\frac{7}{3}e^{\frac{\pi}{6}i}$
52. $\frac{40}{7}(\cos\frac{5\pi}{6}+i\sin\frac{5\pi}{6})$ and $\frac{40}{7}e^{\frac{5\pi}{6}i}$
53. $\frac{9}{2}(\cos\frac{4\pi}{3}+i\sin\frac{4\pi}{3})$ and $\frac{9}{2}e^{\frac{4\pi}{3}i}$
54. $\frac{5}{2}(\cos\frac{4\pi}{3}+i\sin\frac{4\pi}{3})$ and $\frac{5}{2}e^{\frac{4\pi}{3}i}$
55. $13(\cos\frac{2\pi}{3}+i\sin\frac{2\pi}{3})$ and $13e^{\frac{2\pi}{3}i}$
56. $\frac{60}{7}(\cos\frac{\pi}{6}+i\sin\frac{\pi}{6})$ and $\frac{60}{7}e^{\frac{\pi}{6}i}$
57. $82(\cos\frac{5\pi}{6}+i\sin\frac{5\pi}{6})$ and $82e^{\frac{5\pi}{6}i}$
58. $\frac{49}{2}(\cos\frac{2\pi}{3}+i\sin\frac{2\pi}{3})$ and $\frac{49}{2}e^{\frac{2\pi}{3}i}$
59. $40(\cos\frac{7\pi}{6}+i\sin\frac{7\pi}{6})$ and $40e^{\frac{7\pi}{6}i}$
60. $\frac{7\sqrt{2}}{9}(\cos\frac{3\pi}{4}+i\sin\frac{3\pi}{4})$ and $\frac{7\sqrt{2}}{9}e^{\frac{3\pi}{4}i}$
61. $\frac{11}{3}(\cos\frac{5\pi}{3}+i\sin\frac{5\pi}{3})$ and $\frac{11}{3}e^{\frac{5\pi}{3}i}$
62. $\frac{15}{4}(\cos\frac{4\pi}{3}+i\sin\frac{4\pi}{3})$ and $\frac{15}{4}e^{\frac{4\pi}{3}i}$
63. $\frac{34}{9}(\cos\frac{\pi}{3}+i\sin\frac{\pi}{3})$ and $\frac{34}{9}e^{\frac{\pi}{3}i}$
64. $\frac{5}{2}(\cos\frac{\pi}{3}+i\sin\frac{\pi}{3})$ and $\frac{5}{2}e^{\frac{\pi}{3}i}$
65. $49(\cos\frac{11\pi}{6}+i\sin\frac{11\pi}{6})$ and $49e^{\frac{11\pi}{6}i}$
66. $\frac{46\sqrt{2}}{3}(\cos\frac{3\pi}{4}+i\sin\frac{3\pi}{4})$ and $\frac{46\sqrt{2}}{3}e^{\frac{3\pi}{4}i}$
67. $\frac{23\sqrt{2}}{9}(\cos\frac{5\pi}{4}+i\sin\frac{5\pi}{4})$ and $\frac{23\sqrt{2}}{9}e^{\frac{5\pi}{4}i}$
68. $\frac{50}{7}(\cos\frac{7\pi}{6}+i\sin\frac{7\pi}{6})$ and $\frac{50}{7}e^{\frac{7\pi}{6}i}$
69. $\frac{43\sqrt{2}}{2}(\cos\frac{7\pi}{4}+i\sin\frac{7\pi}{4})$ and $\frac{43\sqrt{2}}{2}e^{\frac{7\pi}{4}i}$
70. $\frac{34}{7}(\cos\frac{5\pi}{3}+i\sin\frac{5\pi}{3})$ and $\frac{34}{7}e^{\frac{5\pi}{3}i}$
71. $32\sqrt{2}(\cos\frac{\pi}{4}+i\sin\frac{\pi}{4})$ and $32\sqrt{2}e^{\frac{\pi}{4}i}$
72. $4\sqrt{2}(\cos\frac{7\pi}{4}+i\sin\frac{7\pi}{4})$ and $4\sqrt{2}e^{\frac{7\pi}{4}i}$
73. $\frac{76}{9}(\cos\frac{7\pi}{6}+i\sin\frac{7\pi}{6})$ and $\frac{76}{9}e^{\frac{7\pi}{6}i}$
74. $\frac{88}{9}(\cos\frac{\pi}{3}+i\sin\frac{\pi}{3})$ and $\frac{88}{9}e^{\frac{\pi}{3}i}$
75. $18(\cos\frac{\pi}{6}+i\sin\frac{\pi}{6})$ and $18e^{\frac{\pi}{6}i}$
76. $\frac{64}{9}(\cos\frac{\pi}{6}+i\sin\frac{\pi}{6})$ and $\frac{64}{9}e^{\frac{\pi}{6}i}$
77. $\frac{22}{5}(\cos\frac{\pi}{6}+i\sin\frac{\pi}{6})$ and $\frac{22}{5}e^{\frac{\pi}{6}i}$
78. $\frac{15}{4}(\cos\frac{\pi}{6}+i\sin\frac{\pi}{6})$ and $\frac{15}{4}e^{\frac{\pi}{6}i}$
79. $\frac{100}{7}(\cos\frac{\pi}{6}+i\sin\frac{\pi}{6})$ and $\frac{100}{7}e^{\frac{\pi}{6}i}$
80. $\frac{15}{2}(\cos\frac{7\pi}{6}+i\sin\frac{7\pi}{6})$ and $\frac{15}{2}e^{\frac{7\pi}{6}i}$
81. $\frac{5\sqrt{2}}{9}(\cos\frac{5\pi}{4}+i\sin\frac{5\pi}{4})$ and $\frac{5\sqrt{2}}{9}e^{\frac{5\pi}{4}i}$
82. $\frac{32}{9}(\cos\frac{5\pi}{6}+i\sin\frac{5\pi}{6})$ and $\frac{32}{9}e^{\frac{5\pi}{6}i}$
83. $6(\cos\frac{\pi}{6}+i\sin\frac{\pi}{6})$ and $6e^{\frac{\pi}{6}i}$
84. $\frac{46}{9}(\cos\frac{2\pi}{3}+i\sin\frac{2\pi}{3})$ and $\frac{46}{9}e^{\frac{2\pi}{3}i}$
85. $\frac{50\sqrt{2}}{3}(\cos\frac{7\pi}{4}+i\sin\frac{7\pi}{4})$ and $\frac{50\sqrt{2}}{3}e^{\frac{7\pi}{4}i}$
86. $\frac{23\sqrt{2}}{4}(\cos\frac{\pi}{4}+i\sin\frac{\pi}{4})$ and $\frac{23\sqrt{2}}{4}e^{\frac{\pi}{4}i}$
87. $\frac{22}{3}(\cos\frac{\pi}{3}+i\sin\frac{\pi}{3})$ and $\frac{22}{3}e^{\frac{\pi}{3}i}$
88. $2\sqrt{2}(\cos\frac{5\pi}{4}+i\sin\frac{5\pi}{4})$ and $2\sqrt{2}e^{\frac{5\pi}{4}i}$
89. $\frac{27\sqrt{2}}{2}(\cos\frac{5\pi}{4}+i\sin\frac{5\pi}{4})$ and $\frac{27\sqrt{2}}{2}e^{\frac{5\pi}{4}i}$
90. $1(\cos\frac{5\pi}{6}+i\sin\frac{5\pi}{6})$ and $1e^{\frac{5\pi}{6}i}$
91. $\frac{13}{3}(\cos\frac{11\pi}{6}+i\sin\frac{11\pi}{6})$ and $\frac{13}{3}e^{\frac{11\pi}{6}i}$
92. $4\sqrt{2}(\cos\frac{3\pi}{4}+i\sin\frac{3\pi}{4})$ and $4\sqrt{2}e^{\frac{3\pi}{4}i}$
93. $10\sqrt{2}(\cos\frac{\pi}{4}+i\sin\frac{\pi}{4})$ and $10\sqrt{2}e^{\frac{\pi}{4}i}$
94. $\frac{25}{2}(\cos\frac{5\pi}{3}+i\sin\frac{5\pi}{3})$ and $\frac{25}{2}e^{\frac{5\pi}{3}i}$
95. $\frac{46}{3}(\cos\frac{11\pi}{6}+i\sin\frac{11\pi}{6})$ and $\frac{46}{3}e^{\frac{11\pi}{6}i}$
96. $16(\cos\frac{7\pi}{6}+i\sin\frac{7\pi}{6})$ and $16e^{\frac{7\pi}{6}i}$
97. $\frac{4}{3}(\cos\frac{\pi}{3}+i\sin\frac{\pi}{3})$ and $\frac{4}{3}e^{\frac{\pi}{3}i}$
98. $\frac{18\sqrt{2}}{5}(\cos\frac{\pi}{4}+i\sin\frac{\pi}{4})$ and $\frac{18\sqrt{2}}{5}e^{\frac{\pi}{4}i}$
99. $14\sqrt{2}(\cos\frac{7\pi}{4}+i\sin\frac{7\pi}{4})$ and $14\sqrt{2}e^{\frac{7\pi}{4}i}$
100. $\frac{39\sqrt{2}}{2}(\cos\frac{5\pi}{4}+i\sin\frac{5\pi}{4})$ and $\frac{39\sqrt{2}}{2}e^{\frac{5\pi}{4}i}$
101. $\frac{52}{3}(\cos\frac{11\pi}{6}+i\sin\frac{11\pi}{6})$ and $\frac{52}{3}e^{\frac{11\pi}{6}i}$
102. $\frac{82}{7}(\cos\frac{2\pi}{3}+i\sin\frac{2\pi}{3})$ and $\frac{82}{7}e^{\frac{2\pi}{3}i}$
103. $34\sqrt{2}(\cos\frac{5\pi}{4}+i\sin\frac{5\pi}{4})$ and $34\sqrt{2}e^{\frac{5\pi}{4}i}$
104. $\frac{8\sqrt{2}}{3}(\cos\frac{\pi}{4}+i\sin\frac{\pi}{4})$ and $\frac{8\sqrt{2}}{3}e^{\frac{\pi}{4}i}$
105. $\frac{18}{5}(\cos\frac{5\pi}{6}+i\sin\frac{5\pi}{6})$ and $\frac{18}{5}e^{\frac{5\pi}{6}i}$
106. $\frac{32}{3}(\cos\frac{5\pi}{6}+i\sin\frac{5\pi}{6})$ and $\frac{32}{3}e^{\frac{5\pi}{6}i}$
107. $\frac{86}{7}(\cos\frac{2\pi}{3}+i\sin\frac{2\pi}{3})$ and $\frac{86}{7}e^{\frac{2\pi}{3}i}$
108. $\frac{23\sqrt{2}}{3}(\cos\frac{\pi}{4}+i\sin\frac{\pi}{4})$ and $\frac{23\sqrt{2}}{3}e^{\frac{\pi}{4}i}$
109. $\frac{21\sqrt{2}}{10}(\cos\frac{7\pi}{4}+i\sin\frac{7\pi}{4})$ and $\frac{21\sqrt{2}}{10}e^{\frac{7\pi}{4}i}$
110. $26(\cos\frac{4\pi}{3}+i\sin\frac{4\pi}{3})$ and $26e^{\frac{4\pi}{3}i}$
111. $35(\cos\frac{7\pi}{6}+i\sin\frac{7\pi}{6})$ and $35e^{\frac{7\pi}{6}i}$
112. $76(\cos\frac{2\pi}{3}+i\sin\frac{2\pi}{3})$ and $76e^{\frac{2\pi}{3}i}$
113. $\frac{49}{3}(\cos\frac{5\pi}{6}+i\sin\frac{5\pi}{6})$ and $\frac{49}{3}e^{\frac{5\pi}{6}i}$
114. $\frac{20}{3}(\cos\frac{5\pi}{3}+i\sin\frac{5\pi}{3})$ and $\frac{20}{3}e^{\frac{5\pi}{3}i}$