Find θ (degrees) to 2 decimal places or x (radians) to 4 decimal places, getting:

a) the general solution
b) the first 3 positive values.

1. $\theta = \sin^{-1} 0.195$
2. $\theta = \cos^{-1} 0.605$
3. $\cos\theta = -0.2843$
4. $\sin\theta = -0.9541$
5. $\cos x = 0.845$
6. $\sin x = 0.227$
7. $x = \sin^{-1}(-0.97)$
8. $x = \cos^{-1}(-0.007)$
9. $\theta = \cos^{-1} 0.91$
10. $\theta = \cos^{-1} 0.36$
11. $\sin\theta = 0.53$
12. $\sin\theta = 0.28$
13. $\cos\theta = -0.15$
14. $\cos\theta = -0.84$
15. $\theta = \sin^{-1}(-0.76)$
16. $\theta = \sin^{-1}(-0.62)$
17. $x = \cos^{-1} 0.26$
18. $x = \cos^{-1} 0.73$
19. $x = \sin^{-1} 0.98$
20. $\sin x = 0.52$
21. $\cos x = -0.1$
22. $\cos x = -0.2$
23. $x = \sin^{-1}(-0.63)$
24. $x = \sin^{-1}(-0.04)$

Answers

1. a. $11.24^\circ + 360n^\circ$ and $168.76^\circ + 360n^\circ$

   b. 11.24°, 168.76°, 371.24°

2. a. $52.77^\circ + 360n^\circ$ and $-52.77^\circ + 360n^\circ$

   b. 52.77°, 307.23°, 412.77°

3. a. $106.52^\circ + 360n^\circ$ and $-106.52^\circ + 360n^\circ$

   b. 106.52°, 253.48°, 466.52°

4. a. $-72.57^\circ + 360n^\circ$ and $252.57^\circ + 360n^\circ$

   b. 252.57°, 287.43°, 612.57°

5. a. $0.5642 + 2\pi n$ and $-0.5642 + 2\pi n$

   b. 0.5642, 5.7190, 6.8473

6. a. $0.2290 + 2\pi n$ and $2.9126 + 2\pi n$

   b. 0.2290, 2.9126, 6.5122

7. a. $-1.3252 + 2\pi n$ and $4.4668 + 2\pi n$

   b. 4.4668, 4.9580, 10.7500

8. a. $1.5778 + 2\pi n$ and $-1.5778 + 2\pi n$

   b. 1.5778, 4.7053, 7.8610

9. a. $\pm 24.49^\circ + 360n^\circ$

   b. 24.49°, 335.51°, 384.49°

10. a. $\pm 68.90^\circ + 360n^\circ$

    b. 68.90°, 291.10°, 428.90°

11. a. $32.01^\circ + 360n^\circ$ and $147.99^\circ + 360n^\circ$

    b. 32.01°, 147.99°, 392.01°

12. a. $16.26^\circ + 360n^\circ$ and $163.74^\circ + 360n^\circ$

    b. 16.26°, 163.74°, 376.26°

13. a. $\pm 98.63^\circ + 360n^\circ$

    b. 98.63°, 261.37°, 458.63°

14. a. $\pm 147.14^\circ + 360n^\circ$

    b. 147.14°, 212.86°, 507.14°

15. a. $-49.46^\circ + 360n^\circ$ and $229.46^\circ + 360n^\circ$

    b. 229.46°, 310.54°, 589.46°

16. a. $-38.32^\circ + 360n^\circ$ and $218.32^\circ + 360n^\circ$

    b. 218.32°, 321.68°, 578.32°

17. a. $\pm 1.3078 + 2\pi n$

    b. 1.3078, 4.9754, 7.5910

18. a. $\pm 0.7525 + 2\pi n$

    b. 0.7525, 5.5307, 7.0357

19. a. $1.3705 + 2\pi n$ and $1.7711 + 2\pi n$

    b. 1.3705, 1.7711, 7.6536

20. a. $0.5469 + 2\pi n$ and $2.5947 + 2\pi n$

    b. 0.5469, 2.5947, 6.8300

21. a. $\pm 1.6710 + 2\pi n$

    b. 1.6710, 4.6122, 7.9541

22. a. $\pm 1.7722 + 2\pi n$

    b. 1.7722, 4.5110, 8.0553

23. a. $-0.6816 + 2\pi n$ and $3.8231 + 2\pi n$

    b. 3.8231, 5.6013, 10.1063

24. a. $-0.400 + 2\pi n$ and $3.1816 + 2\pi n$

    b. 3.1816, 6.2432, 9.4648