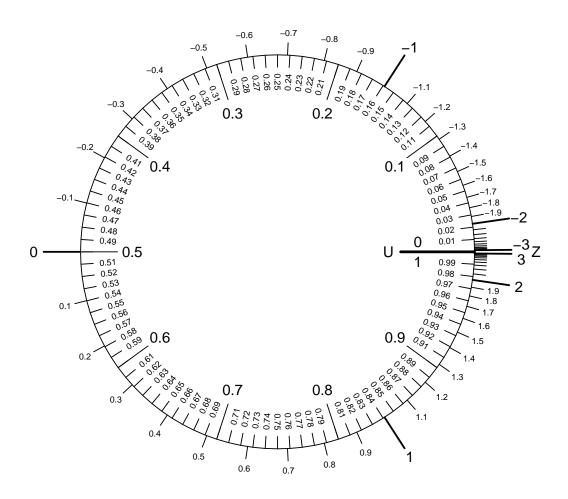
1. Problem:



- (a) Evaluate P(-0.5 < Z < 0).
- (b) Evaluate P(Z < 1.6).
- (c) Determine z such that P(Z > z) = 0.71.
- (d) Determine z such that P(Z < z) = 0.68.
- (e) Evaluate P(Z > -0.1).

(a)
$$P(-0.5 < Z < 0) = \boxed{0.191}$$

(b)
$$P(Z < 1.6) = \boxed{0.945}$$

(c)
$$z = \begin{bmatrix} -0.55 \end{bmatrix}$$

(d)
$$Z = \boxed{0.47}$$

(e)
$$P(Z > -0.1) = \boxed{0.54}$$

2. Problem:



- (a) Evaluate P(Z > -1.1).
- (b) Determine z such that P(Z > z) = 0.74.
- (c) Evaluate P(-0.3 < Z < 0.8).
- (d) Determine z such that P(Z < z) = 0.92.
- (e) Evaluate P(Z < -1.2).

(a)
$$P(Z > -1.1) = \boxed{0.864}$$

(b)
$$z = \boxed{-0.64}$$

(c)
$$P(-0.3 < Z < 0.8) = \boxed{0.406}$$

(d)
$$Z = \boxed{1.41}$$

(e)
$$P(Z < -1.2) = \boxed{0.115}$$

3. Problem:



- (a) Determine z such that P(Z > z) = 0.29.
- (b) Determine z such that P(Z < z) = 0.11.
- (c) Evaluate P(Z > -1.1).
- (d) Evaluate P(Z < 1.1).
- (e) Evaluate P(-0.5 < Z < -0.4).

(a)
$$z = \boxed{0.55}$$

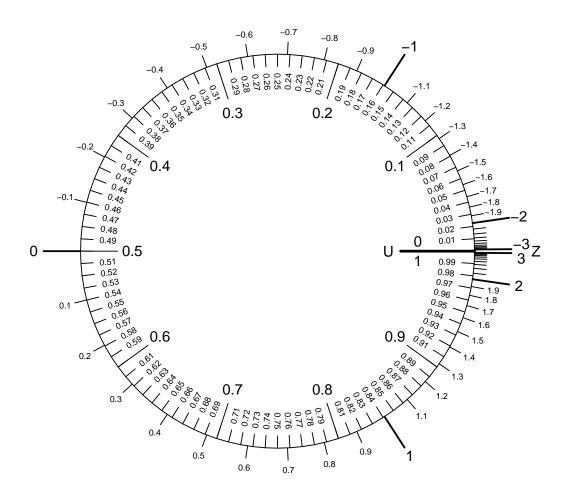
(b)
$$z = \boxed{-1.23}$$

(c)
$$P(Z > -1.1) = \boxed{0.864}$$

(d)
$$P(Z < 1.1) = 0.864$$

(e)
$$P(-0.5 < Z < -0.4) = \boxed{0.036}$$

4. Problem:



- (a) Evaluate P(Z < 0).
- (b) Evaluate P(-0.8 < Z < 1.1).
- (c) Evaluate P(Z > -0.4).
- (d) Determine z such that P(Z > z) = 0.52.
- (e) Determine z such that P(Z < z) = 0.91.

(a)
$$P(Z < 0) = \boxed{0.5}$$

(b)
$$P(-0.8 < Z < 1.1) = 0.652$$

(c)
$$P(Z > -0.4) = \boxed{0.655}$$

(d)
$$z = \boxed{-0.05}$$

(e)
$$z = \boxed{1.34}$$

5. Problem:



- (a) Determine z such that P(Z < z) = 0.78.
- (b) Evaluate P(Z < 0.7).
- (c) Evaluate P(-1.1 < Z < -0.7).
- (d) Evaluate P(Z > -0.6).
- (e) Determine z such that P(Z > z) = 0.29.

(a)
$$z = \boxed{0.77}$$

(b)
$$P(Z < 0.7) = \boxed{0.758}$$

(c)
$$P(-1.1 < Z < -0.7) = \boxed{0.106}$$

(d)
$$P(Z > -0.6) = \boxed{0.726}$$

(e)
$$z = \boxed{0.55}$$

6. Problem:



- (a) Evaluate P(-1 < Z < 1.3).
- (b) Determine z such that P(Z > z) = 0.21.
- (c) Determine z such that P(Z < z) = 0.64.
- (d) Evaluate P(Z < 0.9).
- (e) Evaluate P(Z > -0.3).

(a)
$$P(-1 < Z < 1.3) = \boxed{0.744}$$

(b)
$$z = 0.81$$

(c)
$$Z = \boxed{0.36}$$

(d)
$$P(Z < 0.9) = \boxed{0.816}$$

(e)
$$P(Z > -0.3) = \boxed{0.618}$$

7. Problem:



- (a) Evaluate P(-1.1 < Z < 0.8).
- (b) Evaluate P(Z > -0.6).
- (c) Determine z such that P(Z < z) = 0.17.
- (d) Determine z such that P(Z > z) = 0.96.
- (e) Evaluate P(Z < 0.3).

(a)
$$P(-1.1 < Z < 0.8) = \boxed{0.652}$$

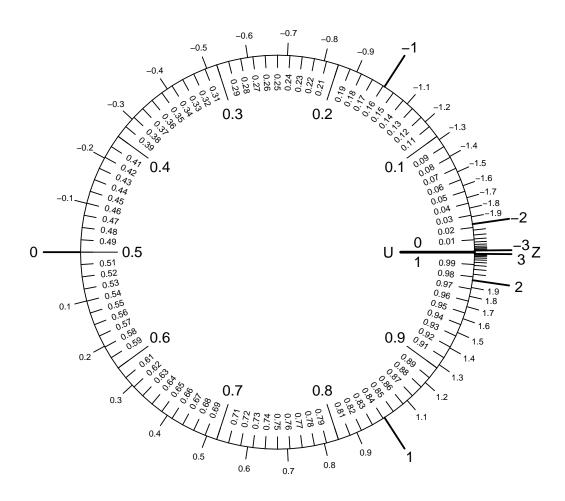
(b)
$$P(Z > -0.6) = \boxed{0.726}$$

(c)
$$Z = \begin{bmatrix} -0.95 \end{bmatrix}$$

(d)
$$z = \boxed{-1.75}$$

(e)
$$P(Z < 0.3) = \boxed{0.618}$$

8. Problem:



- (a) Determine z such that P(Z > z) = 0.72.
- (b) Determine z such that P(Z < z) = 0.78.
- (c) Evaluate P(-1 < Z < -0.7).
- (d) Evaluate P(Z < 0.6).
- (e) Evaluate P(Z > 1.9).

(a)
$$z = \boxed{-0.58}$$

(b)
$$z = \boxed{0.77}$$

(c)
$$P(-1 < Z < -0.7) = \boxed{0.083}$$

(d)
$$P(Z < 0.6) = \boxed{0.726}$$

(e)
$$P(Z > 1.9) = \boxed{0.029}$$

9. Problem:



- (a) Determine z such that P(Z < z) = 0.44.
- (b) Evaluate P(Z < 0).
- (c) Evaluate P(Z > -1.5).
- (d) Determine z such that P(Z > z) = 0.13.
- (e) Evaluate P(-1.1 < Z < 1).

(a)
$$z = \boxed{-0.15}$$

(b)
$$P(Z < 0) = \boxed{0.5}$$

(c)
$$P(Z > -1.5) = \boxed{0.933}$$

(d)
$$z = \boxed{1.13}$$

(e)
$$P(-1.1 < Z < 1) = \boxed{0.705}$$

10. Problem:



- (a) Evaluate P(-0.7 < Z < 0.3).
- (b) Evaluate P(Z > -0.2).
- (c) Evaluate P(Z < 1.2).
- (d) Determine z such that P(Z > z) = 0.85.
- (e) Determine z such that P(Z < z) = 0.09.

(a)
$$P(-0.7 < Z < 0.3) = \boxed{0.376}$$

(b)
$$P(Z > -0.2) = \boxed{0.579}$$

(c)
$$P(Z < 1.2) = \boxed{0.885}$$

(d)
$$z = -1.04$$

(e)
$$z = \boxed{-1.34}$$

11. Problem:



- (a) Evaluate P(Z > 1.1).
- (b) Evaluate P(Z < -0.3).
- (c) Determine z such that P(Z > z) = 0.53.
- (d) Determine z such that P(Z < z) = 0.12.
- (e) Evaluate P(-1.5 < Z < 0.1).

(a)
$$P(Z > 1.1) = \boxed{0.136}$$

(b)
$$P(Z < -0.3) = \boxed{0.382}$$

(c)
$$Z = \boxed{-0.08}$$

(d)
$$z = \boxed{-1.17}$$

(e)
$$P(-1.5 < Z < 0.1) = \boxed{0.473}$$

12. Problem:



- (a) Evaluate P(Z < 1.1).
- (b) Determine z such that P(Z > z) = 0.22.
- (c) Evaluate P(Z > 0.8).
- (d) Evaluate P(-0.5 < Z < 1.2).
- (e) Determine z such that P(Z < z) = 0.22.

(a)
$$P(Z < 1.1) = \boxed{0.864}$$

(b)
$$z = \boxed{0.77}$$

(c)
$$P(Z > 0.8) = \boxed{0.212}$$

(d)
$$P(-0.5 < Z < 1.2) = \boxed{0.576}$$

(e)
$$z = \boxed{-0.77}$$

13. Problem:



- (a) Determine z such that P(Z < z) = 0.35.
- (b) Evaluate P(Z < 1.9).
- (c) Evaluate P(-0.6 < Z < 0.3).
- (d) Evaluate P(Z > -1.6).
- (e) Determine z such that P(Z > z) = 0.25.

(a)
$$z = \boxed{-0.39}$$

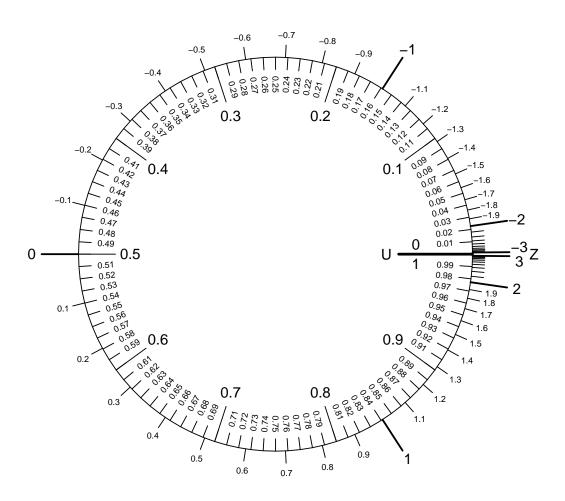
(b)
$$P(Z < 1.9) = \boxed{0.971}$$

(c)
$$P(-0.6 < Z < 0.3) = \boxed{0.344}$$

(d)
$$P(Z > -1.6) = \boxed{0.945}$$

(e)
$$z = \boxed{0.67}$$

14. Problem:



- (a) Evaluate P(Z > -1.5).
- (b) Determine z such that P(Z < z) = 0.42.
- (c) Evaluate P(-1.5 < Z < 1.7).
- (d) Determine z such that P(Z > z) = 0.93.
- (e) Evaluate P(Z < 1.3).

(a)
$$P(Z > -1.5) = \boxed{0.933}$$

(b)
$$z = -0.2$$

(c)
$$P(-1.5 < Z < 1.7) = \boxed{0.888}$$

(d)
$$z = \boxed{-1.48}$$

(e)
$$P(Z < 1.3) = \boxed{0.903}$$

15. Problem:



- (a) Evaluate P(-0.5 < Z < -0.4).
- (b) Determine z such that P(Z > z) = 0.19.
- (c) Evaluate P(Z > -1.1).
- (d) Evaluate P(Z < 0.3).
- (e) Determine z such that P(Z < z) = 0.02.

(a)
$$P(-0.5 < Z < -0.4) = \boxed{0.036}$$

(b)
$$z = \boxed{0.88}$$

(c)
$$P(Z > -1.1) = \boxed{0.864}$$

(d)
$$P(Z < 0.3) = \boxed{0.618}$$

(e)
$$z = -2.05$$

16. Problem:



- (a) Evaluate P(Z > 0.4).
- (b) Determine z such that P(Z < z) = 0.88.
- (c) Determine z such that P(Z > z) = 0.88.
- (d) Evaluate P(Z < 2).
- (e) Evaluate P(0.6 < Z < 1.1).

(a)
$$P(Z > 0.4) = \boxed{0.345}$$

(b)
$$Z = \boxed{1.17}$$

(c)
$$Z = \boxed{-1.17}$$

(d)
$$P(Z < 2) = \boxed{0.977}$$

(e)
$$P(0.6 < Z < 1.1) = \boxed{0.138}$$

17. Problem:



- (a) Determine z such that P(Z > z) = 0.3.
- (b) Evaluate P(0.3 < Z < 0.4).
- (c) Evaluate P(Z < 0.6).
- (d) Determine z such that P(Z < z) = 0.34.
- (e) Evaluate P(Z > -0.1).

(a)
$$z = \boxed{0.52}$$

(b)
$$P(0.3 < Z < 0.4) = \boxed{0.037}$$

(c)
$$P(Z < 0.6) = \boxed{0.726}$$

(d)
$$z = \boxed{-0.41}$$

(e)
$$P(Z > -0.1) = \boxed{0.54}$$

18. Problem:



- (a) Evaluate P(Z < 0.2).
- (b) Determine z such that P(Z < z) = 0.08.
- (c) Evaluate P(-0.2 < Z < 0.6).
- (d) Evaluate P(Z > 0.5).
- (e) Determine z such that P(Z > z) = 0.66.

(a)
$$P(Z < 0.2) = \boxed{0.579}$$

(b)
$$z = \boxed{-1.41}$$

(c)
$$P(-0.2 < Z < 0.6) = \boxed{0.305}$$

(d)
$$P(Z > 0.5) = \boxed{0.309}$$

(e)
$$z = \boxed{-0.41}$$

19. Problem:



- (a) Evaluate P(Z < 0.2).
- (b) Determine z such that P(Z < z) = 0.2.
- (c) Evaluate P(-0.2 < Z < 1).
- (d) Determine z such that P(Z > z) = 0.11.
- (e) Evaluate P(Z > -0.4).

(a)
$$P(Z < 0.2) = \boxed{0.579}$$

(b)
$$z = \boxed{-0.84}$$

(c)
$$P(-0.2 < Z < 1) = \boxed{0.42}$$

(d)
$$z = \boxed{1.23}$$

(e)
$$P(Z > -0.4) = \boxed{0.655}$$

20. Problem:



- (a) Determine z such that P(Z > z) = 0.83.
- (b) Determine z such that P(Z < z) = 0.13.
- (c) Evaluate P(Z > -1.6).
- (d) Evaluate P(-1.2 < Z < 0.4).
- (e) Evaluate P(Z < 0.7).

(a)
$$z = \boxed{-0.95}$$

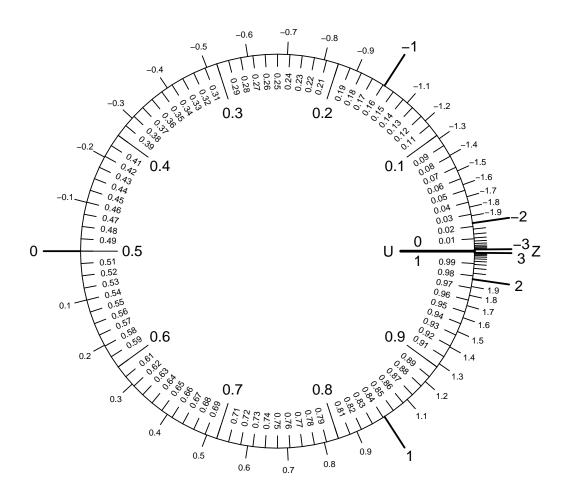
(b)
$$z = \boxed{-1.13}$$

(c)
$$P(Z > -1.6) = \boxed{0.945}$$

(d)
$$P(-1.2 < Z < 0.4) = \boxed{0.54}$$

(e)
$$P(Z < 0.7) = \boxed{0.758}$$

21. Problem:



- (a) Determine z such that P(Z < z) = 0.54.
- (b) Evaluate P(Z > -2.2).
- (c) Determine z such that P(Z > z) = 0.89.
- (d) Evaluate P(Z < -0.4).
- (e) Evaluate P(-1.4 < Z < -0.2).

(a)
$$z = 0.1$$

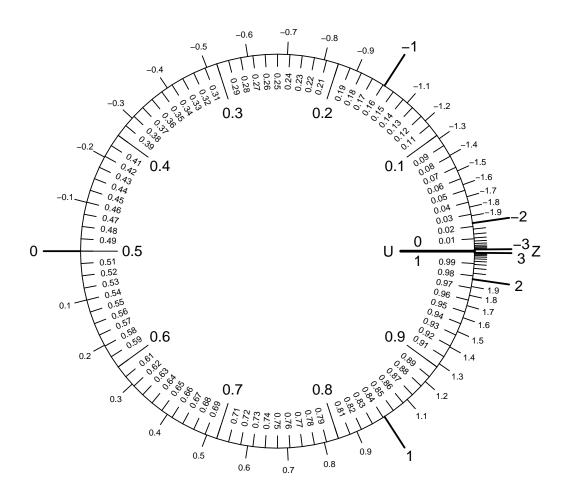
(b)
$$P(Z > -2.2) = \boxed{0.986}$$

(c)
$$z = \boxed{-1.23}$$

(d)
$$P(Z < -0.4) = \boxed{0.345}$$

(e)
$$P(-1.4 < Z < -0.2) = \boxed{0.34}$$

22. Problem:



- (a) Determine z such that P(Z > z) = 0.04.
- (b) Evaluate P(Z < 0.6).
- (c) Evaluate P(Z > 0.3).
- (d) Evaluate P(-1.3 < Z < 0.3).
- (e) Determine z such that P(Z < z) = 0.08.

(a)
$$z = \boxed{1.75}$$

(b)
$$P(Z < 0.6) = \boxed{0.726}$$

(c)
$$P(Z > 0.3) = \boxed{0.382}$$

(d)
$$P(-1.3 < Z < 0.3) = \boxed{0.521}$$

(e)
$$z = \boxed{-1.41}$$

23. Problem:



- (a) Determine z such that P(Z > z) = 0.66.
- (b) Evaluate P(Z < -0.7).
- (c) Evaluate P(Z > -0.5).
- (d) Determine z such that P(Z < z) = 0.25.
- (e) Evaluate P(-0.6 < Z < 0.7).

(a)
$$z = \boxed{-0.41}$$

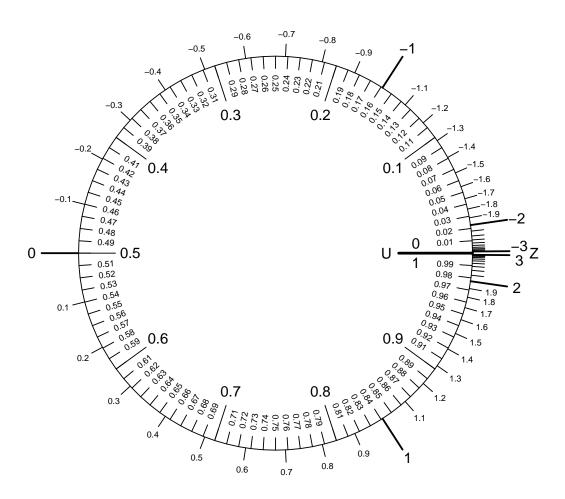
(b)
$$P(Z < -0.7) = \boxed{0.242}$$

(c)
$$P(Z > -0.5) = \boxed{0.691}$$

(d)
$$z = \boxed{-0.67}$$

(e)
$$P(-0.6 < Z < 0.7) = \boxed{0.484}$$

24. Problem:



- (a) Evaluate P(0.1 < Z < 1).
- (b) Evaluate P(Z > -0.5).
- (c) Determine z such that P(Z < z) = 0.32.
- (d) Determine z such that P(Z > z) = 0.35.
- (e) Evaluate P(Z < 0.9).

(a)
$$P(0.1 < Z < 1) = \boxed{0.301}$$

(b)
$$P(Z > -0.5) = \boxed{0.691}$$

(c)
$$z = \boxed{-0.47}$$

(d)
$$z = 0.39$$

(e)
$$P(Z < 0.9) = \boxed{0.816}$$

25. Problem:



- (a) Evaluate P(1.1 < Z < 1.8).
- (b) Evaluate P(Z < -1.7).
- (c) Determine z such that P(Z < z) = 0.9.
- (d) Determine z such that P(Z > z) = 0.21.
- (e) Evaluate P(Z > 1.8).

(a)
$$P(1.1 < Z < 1.8) = \boxed{0.1}$$

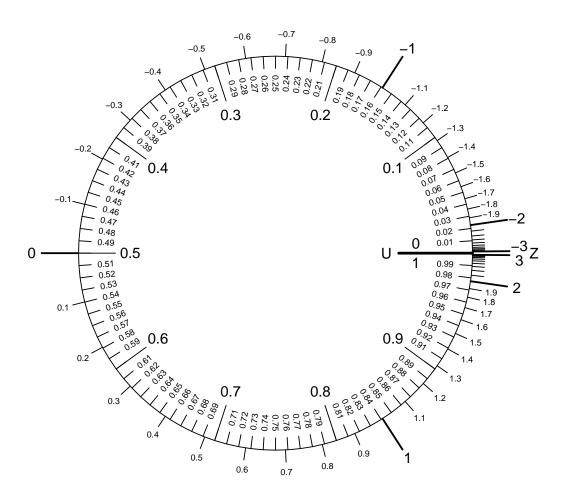
(b)
$$P(Z < -1.7) = \boxed{0.045}$$

(c)
$$Z = \boxed{1.28}$$

(d)
$$z = 0.81$$

(e)
$$P(Z > 1.8) = \boxed{0.036}$$

26. Problem:



- (a) Evaluate P(-1.6 < Z < -0.4).
- (b) Evaluate P(Z > -0.5).
- (c) Determine z such that P(Z < z) = 0.91.
- (d) Evaluate P(Z < 0.2).
- (e) Determine z such that P(Z > z) = 0.57.

(a)
$$P(-1.6 < Z < -0.4) = \boxed{0.29}$$

(b)
$$P(Z > -0.5) = \boxed{0.691}$$

(c)
$$Z = \boxed{1.34}$$

(d)
$$P(Z < 0.2) = \boxed{0.579}$$

(e)
$$z = \boxed{-0.18}$$

27. Problem:



- (a) Evaluate P(Z < 0.3).
- (b) Determine z such that P(Z < z) = 0.96.
- (c) Evaluate P(Z > -0.6).
- (d) Evaluate P(-0.5 < Z < 1.4).
- (e) Determine z such that P(Z > z) = 0.7.

(a)
$$P(Z < 0.3) = \boxed{0.618}$$

(b)
$$z = \boxed{1.75}$$

(c)
$$P(Z > -0.6) = \boxed{0.726}$$

(d)
$$P(-0.5 < Z < 1.4) = \boxed{0.61}$$

(e)
$$z = \boxed{-0.52}$$

28. Problem:



- (a) Evaluate P(-0.2 < Z < 0.7).
- (b) Evaluate P(Z < 1.9).
- (c) Determine z such that P(Z > z) = 0.85.
- (d) Evaluate P(Z > 2.1).
- (e) Determine z such that P(Z < z) = 0.49.

(a)
$$P(-0.2 < Z < 0.7) = \boxed{0.337}$$

(b)
$$P(Z < 1.9) = \boxed{0.971}$$

(c)
$$Z = \begin{bmatrix} -1.04 \end{bmatrix}$$

(d)
$$P(Z > 2.1) = \boxed{0.018}$$

(e)
$$z = \boxed{-0.03}$$

29. Problem:



- (a) Evaluate P(Z < -0.3).
- (b) Determine z such that P(Z < z) = 0.35.
- (c) Evaluate P(0.9 < Z < 1.2).
- (d) Determine z such that P(Z > z) = 0.02.
- (e) Evaluate P(Z > -0.3).

(a)
$$P(Z < -0.3) = \boxed{0.382}$$

(b)
$$z = \boxed{-0.39}$$

(c)
$$P(0.9 < Z < 1.2) = 0.069$$

(d)
$$z = 2.05$$

(e)
$$P(Z > -0.3) = \boxed{0.618}$$

30. Problem:



- (a) Evaluate P(Z < 0.1).
- (b) Determine z such that P(Z > z) = 0.21.
- (c) Determine z such that P(Z < z) = 0.42.
- (d) Evaluate P(Z > -1.1).
- (e) Evaluate P(-0.7 < Z < -0.6).

(a)
$$P(Z < 0.1) = \boxed{0.54}$$

(b)
$$z = \boxed{0.81}$$

(c)
$$z = -0.2$$

(d)
$$P(Z > -1.1) = \boxed{0.864}$$

(e)
$$P(-0.7 < Z < -0.6) = \boxed{0.032}$$

31. Problem:



- (a) Evaluate P(Z > 1.1).
- (b) Evaluate P(Z < 0.4).
- (c) Determine z such that P(Z < z) = 0.04.
- (d) Determine z such that P(Z > z) = 0.41.
- (e) Evaluate P(-1.2 < Z < -0.7).

(a)
$$P(Z > 1.1) = \boxed{0.136}$$

(b)
$$P(Z < 0.4) = \boxed{0.655}$$

(c)
$$z = \boxed{-1.75}$$

(d)
$$z = \boxed{0.23}$$

(e)
$$P(-1.2 < Z < -0.7) = \boxed{0.127}$$

32. Problem:



- (a) Evaluate P(Z > -0.2).
- (b) Determine z such that P(Z < z) = 0.56.
- (c) Evaluate P(Z < -0.9).
- (d) Evaluate P(-0.8 < Z < -0.6).
- (e) Determine z such that P(Z > z) = 0.19.

(a)
$$P(Z > -0.2) = \boxed{0.579}$$

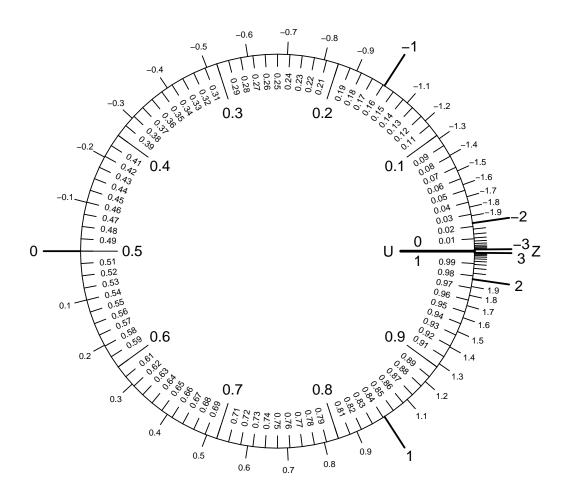
(b)
$$z = 0.15$$

(c)
$$P(Z < -0.9) = \boxed{0.184}$$

(d)
$$P(-0.8 < Z < -0.6) = \boxed{0.062}$$

(e)
$$z = \boxed{0.88}$$

33. Problem:



- (a) Determine z such that P(Z < z) = 0.98.
- (b) Evaluate P(Z < 2).
- (c) Evaluate P(Z > 0.5).
- (d) Evaluate P(-0.9 < Z < -0.2).
- (e) Determine z such that P(Z > z) = 0.41.

(a)
$$z = 2.05$$

(b)
$$P(Z < 2) = \boxed{0.977}$$

(c)
$$P(Z > 0.5) = \boxed{0.309}$$

(d)
$$P(-0.9 < Z < -0.2) = \boxed{0.237}$$

(e)
$$z = \boxed{0.23}$$

34. Problem:



- (a) Evaluate P(Z < 0.9).
- (b) Determine z such that P(Z > z) = 0.59.
- (c) Determine z such that P(Z < z) = 0.94.
- (d) Evaluate P(Z > 1.4).
- (e) Evaluate P(-1.8 < Z < -0.1).

(a)
$$P(Z < 0.9) = \boxed{0.816}$$

(b)
$$z = \boxed{-0.23}$$

(c)
$$Z = \boxed{1.55}$$

(d)
$$P(Z > 1.4) = \boxed{0.081}$$

(e)
$$P(-1.8 < Z < -0.1) = \boxed{0.424}$$

35. Problem:



- (a) Evaluate P(-1 < Z < 1.3).
- (b) Evaluate P(Z < -0.5).
- (c) Determine z such that P(Z < z) = 0.48.
- (d) Determine z such that P(Z > z) = 0.96.
- (e) Evaluate P(Z > 0.5).

(a)
$$P(-1 < Z < 1.3) = \boxed{0.744}$$

(b)
$$P(Z < -0.5) = \boxed{0.309}$$

(c)
$$Z = \begin{bmatrix} -0.05 \end{bmatrix}$$

(d)
$$z = \boxed{-1.75}$$

(e)
$$P(Z > 0.5) = \boxed{0.309}$$

36. Problem:



- (a) Evaluate P(Z < 0).
- (b) Evaluate P(Z > -0.3).
- (c) Evaluate P(-0.7 < Z < 0.2).
- (d) Determine z such that P(Z < z) = 0.82.
- (e) Determine z such that P(Z > z) = 0.32.

(a)
$$P(Z < 0) = \boxed{0.5}$$

(b)
$$P(Z > -0.3) = \boxed{0.618}$$

(c)
$$P(-0.7 < Z < 0.2) = \boxed{0.337}$$

(d)
$$z = \boxed{0.92}$$

(e)
$$z = \boxed{0.47}$$

37. Problem:



- (a) Evaluate P(Z > -0.1).
- (b) Evaluate P(Z < 0.6).
- (c) Evaluate P(1.1 < Z < 1.5).
- (d) Determine z such that P(Z > z) = 0.18.
- (e) Determine z such that P(Z < z) = 0.8.

(a)
$$P(Z > -0.1) = \boxed{0.54}$$

(b)
$$P(Z < 0.6) = \boxed{0.726}$$

(c)
$$P(1.1 < Z < 1.5) = 0.069$$

(d)
$$z = \boxed{0.92}$$

(e)
$$z = \boxed{0.84}$$

38. Problem:



- (a) Determine z such that P(Z < z) = 0.38.
- (b) Evaluate P(Z < -1.3).
- (c) Evaluate P(Z > 0.1).
- (d) Determine z such that P(Z > z) = 0.72.
- (e) Evaluate P(0.9 < Z < 1.1).

(a)
$$z = \boxed{-0.31}$$

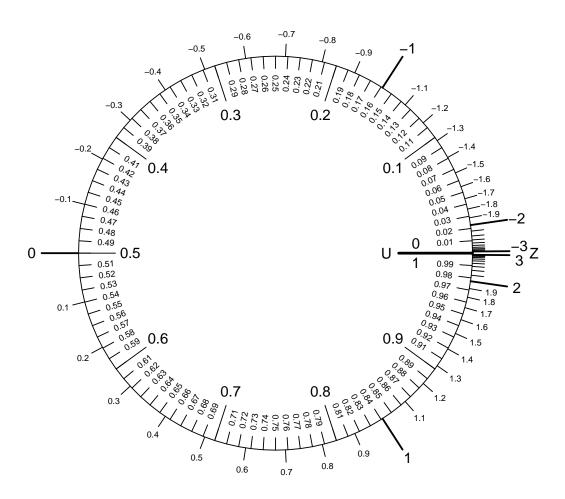
(b)
$$P(Z < -1.3) = \boxed{0.097}$$

(c)
$$P(Z > 0.1) = \boxed{0.46}$$

(d)
$$z = \boxed{-0.58}$$

(e)
$$P(0.9 < Z < 1.1) = \boxed{0.048}$$

39. Problem:



- (a) Determine z such that P(Z > z) = 0.39.
- (b) Evaluate P(0.2 < Z < 0.5).
- (c) Evaluate P(Z < -0.2).
- (d) Evaluate P(Z > -0.8).
- (e) Determine z such that P(Z < z) = 0.43.

(a)
$$z = \boxed{0.28}$$

(b)
$$P(0.2 < Z < 0.5) = \boxed{0.112}$$

(c)
$$P(Z < -0.2) = \boxed{0.421}$$

(d)
$$P(Z > -0.8) = \boxed{0.788}$$

(e)
$$z = \boxed{-0.18}$$

40. Problem:



- (a) Evaluate P(Z < -0.3).
- (b) Determine z such that P(Z < z) = 0.75.
- (c) Evaluate P(Z > -0.5).
- (d) Evaluate P(-0.5 < Z < 1.1).
- (e) Determine z such that P(Z > z) = 0.83.

(a)
$$P(Z < -0.3) = \boxed{0.382}$$

(b)
$$z = 0.67$$

(c)
$$P(Z > -0.5) = \boxed{0.691}$$

(d)
$$P(-0.5 < Z < 1.1) = \boxed{0.555}$$

(e)
$$z = \boxed{-0.95}$$

41. Problem:



- (a) Evaluate P(-1.4 < Z < 0.5).
- (b) Evaluate P(Z < 0.7).
- (c) Evaluate P(Z > -1).
- (d) Determine z such that P(Z > z) = 0.18.
- (e) Determine z such that P(Z < z) = 0.37.

(a)
$$P(-1.4 < Z < 0.5) = \boxed{0.61}$$

(b)
$$P(Z < 0.7) = \boxed{0.758}$$

(c)
$$P(Z > -1) = \boxed{0.841}$$

(d)
$$z = 0.92$$

(e)
$$z = \boxed{-0.33}$$

42. Problem:



- (a) Evaluate P(-1.3 < Z < 2.2).
- (b) Determine z such that P(Z < z) = 0.31.
- (c) Determine z such that P(Z > z) = 0.43.
- (d) Evaluate P(Z < -0.9).
- (e) Evaluate P(Z > 0.2).

(a)
$$P(-1.3 < Z < 2.2) = \boxed{0.889}$$

(b)
$$z = -0.5$$

(c)
$$Z = \boxed{0.18}$$

(d)
$$P(Z < -0.9) = \boxed{0.184}$$

(e)
$$P(Z > 0.2) = \boxed{0.421}$$

43. Problem:



- (a) Determine z such that P(Z > z) = 0.29.
- (b) Determine z such that P(Z < z) = 0.39.
- (c) Evaluate P(-0.9 < Z < 0.2).
- (d) Evaluate P(Z < -0.4).
- (e) Evaluate P(Z > 0.7).

(a)
$$z = \boxed{0.55}$$

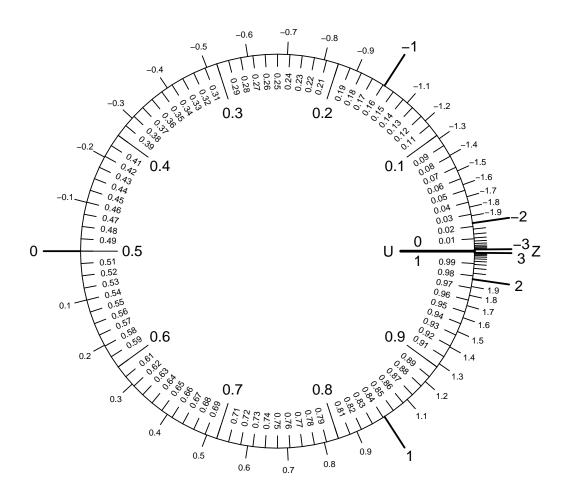
(b)
$$z = \boxed{-0.28}$$

(c)
$$P(-0.9 < Z < 0.2) = \boxed{0.395}$$

(d)
$$P(Z < -0.4) = \boxed{0.345}$$

(e)
$$P(Z > 0.7) = \boxed{0.242}$$

44. Problem:



- (a) Determine z such that P(Z < z) = 0.57.
- (b) Evaluate P(Z < -0.3).
- (c) Evaluate P(-1.5 < Z < -0.6).
- (d) Determine z such that P(Z > z) = 0.25.
- (e) Evaluate P(Z > -0.1).

(a)
$$z = \boxed{0.18}$$

(b)
$$P(Z < -0.3) = \boxed{0.382}$$

(c)
$$P(-1.5 < Z < -0.6) = \boxed{0.207}$$

(d)
$$z = 0.67$$

(e)
$$P(Z > -0.1) = \boxed{0.54}$$

45. Problem:



- (a) Evaluate P(Z > -2.2).
- (b) Determine z such that P(Z < z) = 0.61.
- (c) Evaluate P(Z < 0.7).
- (d) Evaluate P(-0.2 < Z < 0.3).
- (e) Determine z such that P(Z > z) = 0.59.

(a)
$$P(Z > -2.2) = \boxed{0.986}$$

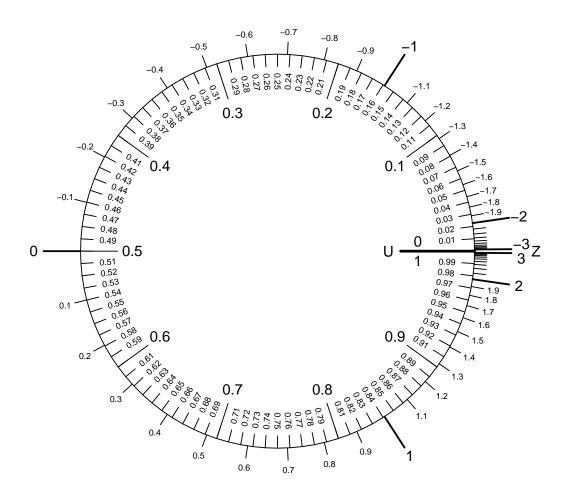
(b)
$$z = \boxed{0.28}$$

(c)
$$P(Z < 0.7) = \boxed{0.758}$$

(d)
$$P(-0.2 < Z < 0.3) = \boxed{0.197}$$

(e)
$$z = \boxed{-0.23}$$

46. Problem:



- (a) Evaluate P(Z < 0.1).
- (b) Evaluate P(Z > 0.2).
- (c) Evaluate P(0 < Z < 2.1).
- (d) Determine z such that P(Z < z) = 0.66.
- (e) Determine z such that P(Z > z) = 0.15.

(a)
$$P(Z < 0.1) = \boxed{0.54}$$

(b)
$$P(Z > 0.2) = \boxed{0.421}$$

(c)
$$P(0 < Z < 2.1) = \boxed{0.482}$$

(d)
$$Z = \boxed{0.41}$$

(e)
$$z = \boxed{1.04}$$

47. Problem:



- (a) Evaluate P(Z < 0).
- (b) Evaluate P(-1.7 < Z < -0.7).
- (c) Determine z such that P(Z < z) = 0.57.
- (d) Evaluate P(Z > 0.5).
- (e) Determine z such that P(Z > z) = 0.49.

(a)
$$P(Z < 0) = \boxed{0.5}$$

(b)
$$P(-1.7 < Z < -0.7) = \boxed{0.197}$$

(c)
$$Z = \boxed{0.18}$$

(d)
$$P(Z > 0.5) = \boxed{0.309}$$

(e)
$$z = \boxed{0.03}$$

48. Problem:



- (a) Evaluate P(Z > 0).
- (b) Evaluate P(-1.7 < Z < -0.5).
- (c) Evaluate P(Z < -1).
- (d) Determine z such that P(Z > z) = 0.66.
- (e) Determine z such that P(Z < z) = 0.21.

(a)
$$P(Z > 0) = \boxed{0.5}$$

(b)
$$P(-1.7 < Z < -0.5) = \boxed{0.264}$$

(c)
$$P(Z < -1) = \boxed{0.159}$$

(d)
$$z = \boxed{-0.41}$$

(e)
$$z = \boxed{-0.81}$$

49. Problem:



- (a) Evaluate P(Z < 0.7).
- (b) Evaluate P(-1.5 < Z < 0.3).
- (c) Determine z such that P(Z < z) = 0.78.
- (d) Evaluate P(Z > 0.1).
- (e) Determine z such that P(Z > z) = 0.12.

(a)
$$P(Z < 0.7) = \boxed{0.758}$$

(b)
$$P(-1.5 < Z < 0.3) = \boxed{0.551}$$

(c)
$$Z = \boxed{0.77}$$

(d)
$$P(Z > 0.1) = \boxed{0.46}$$

(e)
$$Z = \boxed{1.17}$$

50. Problem:



- (a) Evaluate P(Z < -0.2).
- (b) Determine z such that P(Z > z) = 0.74.
- (c) Evaluate P(Z > 0.7).
- (d) Determine z such that P(Z < z) = 0.63.
- (e) Evaluate P(0.6 < Z < 0.9).

(a)
$$P(Z < -0.2) = \boxed{0.421}$$

(b)
$$z = \boxed{-0.64}$$

(c)
$$P(Z > 0.7) = \boxed{0.242}$$

(d)
$$z = 0.33$$

(e)
$$P(0.6 < Z < 0.9) = \boxed{0.09}$$

51. Problem:



- (a) Evaluate P(-0.9 < Z < 0).
- (b) Determine z such that P(Z > z) = 0.05.
- (c) Determine z such that P(Z < z) = 0.43.
- (d) Evaluate P(Z < 0).
- (e) Evaluate P(Z > 0.9).

(a)
$$P(-0.9 < Z < 0) = \boxed{0.316}$$

(b)
$$Z = \boxed{1.64}$$

(c)
$$z = \boxed{-0.18}$$

(d)
$$P(Z < 0) = 0.5$$

(e)
$$P(Z > 0.9) = \boxed{0.184}$$

52. Problem:



- (a) Evaluate P(0 < Z < 0.5).
- (b) Determine z such that P(Z > z) = 0.68.
- (c) Evaluate P(Z > 1.1).
- (d) Determine z such that P(Z < z) = 0.5.
- (e) Evaluate P(Z < -0.3).

(a)
$$P(0 < Z < 0.5) = \boxed{0.191}$$

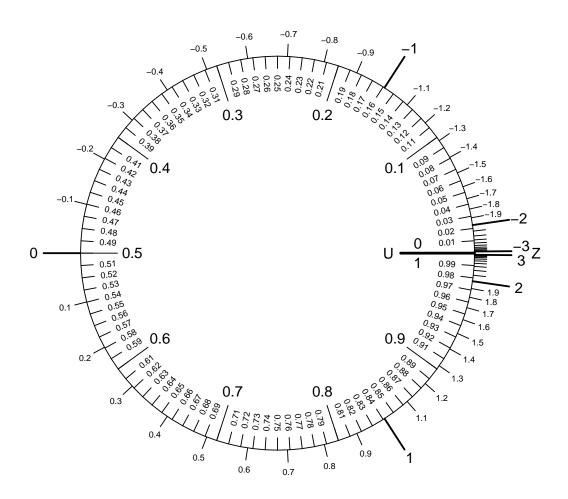
(b)
$$z = \boxed{-0.47}$$

(c)
$$P(Z > 1.1) = \boxed{0.136}$$

(d)
$$z = \boxed{0}$$

(e)
$$P(Z < -0.3) = \boxed{0.382}$$

53. Problem:



- (a) Evaluate P(Z < 1).
- (b) Determine z such that P(Z > z) = 0.94.
- (c) Evaluate P(Z > 1.9).
- (d) Evaluate P(-0.1 < Z < 0.7).
- (e) Determine z such that P(Z < z) = 0.43.

(a)
$$P(Z < 1) = \boxed{0.841}$$

(b)
$$z = \boxed{-1.55}$$

(c)
$$P(Z > 1.9) = \boxed{0.029}$$

(d)
$$P(-0.1 < Z < 0.7) = \boxed{0.298}$$

(e)
$$z = \boxed{-0.18}$$

54. Problem:



- (a) Evaluate P(Z > -0.4).
- (b) Determine z such that P(Z > z) = 0.12.
- (c) Determine z such that P(Z < z) = 0.88.
- (d) Evaluate P(Z < -0.2).
- (e) Evaluate P(-1 < Z < -0.1).

(a)
$$P(Z > -0.4) = \boxed{0.655}$$

(b)
$$Z = \boxed{1.17}$$

(c)
$$Z = \boxed{1.17}$$

(d)
$$P(Z < -0.2) = \boxed{0.421}$$

(e)
$$P(-1 < Z < -0.1) = \boxed{0.301}$$

55. Problem:



- (a) Evaluate P(0 < Z < 0.3).
- (b) Determine z such that P(Z > z) = 0.24.
- (c) Evaluate P(Z > -1.6).
- (d) Determine z such that P(Z < z) = 0.29.
- (e) Evaluate P(Z < 0.3).

(a)
$$P(0 < Z < 0.3) = \boxed{0.118}$$

(b)
$$z = \boxed{0.71}$$

(c)
$$P(Z > -1.6) = \boxed{0.945}$$

(d)
$$z = \boxed{-0.55}$$

(e)
$$P(Z < 0.3) = \boxed{0.618}$$

56. Problem:



- (a) Evaluate P(Z > 0.2).
- (b) Determine z such that P(Z < z) = 0.75.
- (c) Determine z such that P(Z > z) = 0.98.
- (d) Evaluate P(0.5 < Z < 1.4).
- (e) Evaluate P(Z < 1.1).

(a)
$$P(Z > 0.2) = \boxed{0.421}$$

(b)
$$z = 0.67$$

(c)
$$z = \boxed{-2.05}$$

(d)
$$P(0.5 < Z < 1.4) = \boxed{0.228}$$

(e)
$$P(Z < 1.1) = \boxed{0.864}$$

57. Problem:



- (a) Evaluate P(Z < 0.6).
- (b) Determine z such that P(Z > z) = 0.87.
- (c) Evaluate P(-0.4 < Z < 2.3).
- (d) Evaluate P(Z > 0.2).
- (e) Determine z such that P(Z < z) = 0.04.

(a)
$$P(Z < 0.6) = \boxed{0.726}$$

(b)
$$z = \boxed{-1.13}$$

(c)
$$P(-0.4 < Z < 2.3) = \boxed{0.644}$$

(d)
$$P(Z > 0.2) = \boxed{0.421}$$

(e)
$$z = \boxed{-1.75}$$

58. Problem:



- (a) Determine z such that P(Z > z) = 0.3.
- (b) Evaluate P(Z > 0.1).
- (c) Determine z such that P(Z < z) = 0.73.
- (d) Evaluate P(Z < 1.1).
- (e) Evaluate P(-0.8 < Z < 0.4).

(a)
$$z = \boxed{0.52}$$

(b)
$$P(Z > 0.1) = \boxed{0.46}$$

(c)
$$Z = \boxed{0.61}$$

(d)
$$P(Z < 1.1) = \boxed{0.864}$$

(e)
$$P(-0.8 < Z < 0.4) = \boxed{0.443}$$

59. Problem:



- (a) Determine z such that P(Z > z) = 0.84.
- (b) Evaluate P(-0.5 < Z < 0.2).
- (c) Determine z such that P(Z < z) = 0.85.
- (d) Evaluate P(Z < -1).
- (e) Evaluate P(Z > -1.5).

(a)
$$z = \boxed{-0.99}$$

(b)
$$P(-0.5 < Z < 0.2) = \boxed{0.27}$$

(c)
$$Z = \boxed{1.04}$$

(d)
$$P(Z < -1) = \boxed{0.159}$$

(e)
$$P(Z > -1.5) = \boxed{0.933}$$

60. Problem:



- (a) Determine z such that P(Z < z) = 0.97.
- (b) Evaluate P(Z > -0.5).
- (c) Evaluate P(Z < -1.3).
- (d) Determine z such that P(Z > z) = 0.26.
- (e) Evaluate P(-1.1 < Z < 0.5).

(a)
$$z = \boxed{1.88}$$

(b)
$$P(Z > -0.5) = \boxed{0.691}$$

(c)
$$P(Z < -1.3) = \boxed{0.097}$$

(d)
$$Z = \boxed{0.64}$$

(e)
$$P(-1.1 < Z < 0.5) = 0.555$$

61. Problem:



- (a) Determine z such that P(Z > z) = 0.27.
- (b) Evaluate P(-0.2 < Z < 0.7).
- (c) Evaluate P(Z > 0).
- (d) Determine z such that P(Z < z) = 0.96.
- (e) Evaluate P(Z < 1.1).

(a)
$$z = \boxed{0.61}$$

(b)
$$P(-0.2 < Z < 0.7) = \boxed{0.337}$$

(c)
$$P(Z > 0) = \boxed{0.5}$$

(d)
$$z = \boxed{1.75}$$

(e)
$$P(Z < 1.1) = \boxed{0.864}$$

62. Problem:



- (a) Determine z such that P(Z > z) = 0.04.
- (b) Evaluate P(Z < 1).
- (c) Evaluate P(Z > -0.4).
- (d) Evaluate P(-0.4 < Z < 0.7).
- (e) Determine z such that P(Z < z) = 0.13.

(a)
$$z = \boxed{1.75}$$

(b)
$$P(Z < 1) = \boxed{0.841}$$

(c)
$$P(Z > -0.4) = \boxed{0.655}$$

(d)
$$P(-0.4 < Z < 0.7) = \boxed{0.413}$$

(e)
$$z = \boxed{-1.13}$$

63. Problem:



- (a) Determine z such that P(Z > z) = 0.52.
- (b) Evaluate P(Z < -0.4).
- (c) Evaluate P(Z > 0.2).
- (d) Evaluate P(-0.2 < Z < 0.3).
- (e) Determine z such that P(Z < z) = 0.23.

(a)
$$z = \boxed{-0.05}$$

(b)
$$P(Z < -0.4) = \boxed{0.345}$$

(c)
$$P(Z > 0.2) = \boxed{0.421}$$

(d)
$$P(-0.2 < Z < 0.3) = \boxed{0.197}$$

(e)
$$z = \boxed{-0.74}$$

64. Problem:



- (a) Determine z such that P(Z < z) = 0.54.
- (b) Determine z such that P(Z > z) = 0.93.
- (c) Evaluate P(0.2 < Z < 0.6).
- (d) Evaluate P(Z > 0.4).
- (e) Evaluate P(Z < -0.1).

(a)
$$z = \boxed{0.1}$$

(b)
$$z = \boxed{-1.48}$$

(c)
$$P(0.2 < Z < 0.6) = \boxed{0.147}$$

(d)
$$P(Z > 0.4) = \boxed{0.345}$$

(e)
$$P(Z < -0.1) = \boxed{0.46}$$

65. Problem:



- (a) Evaluate P(Z < 0).
- (b) Determine z such that P(Z < z) = 0.44.
- (c) Evaluate P(-2.1 < Z < 0.4).
- (d) Determine z such that P(Z > z) = 0.77.
- (e) Evaluate P(Z > 0.7).

(a)
$$P(Z < 0) = \boxed{0.5}$$

(b)
$$z = \boxed{-0.15}$$

(c)
$$P(-2.1 < Z < 0.4) = \boxed{0.637}$$

(d)
$$z = \boxed{-0.74}$$

(e)
$$P(Z > 0.7) = \boxed{0.242}$$

66. Problem:



- (a) Determine z such that P(Z < z) = 0.82.
- (b) Evaluate P(Z > 0.4).
- (c) Evaluate P(-1.1 < Z < 1.4).
- (d) Determine z such that P(Z > z) = 0.83.
- (e) Evaluate P(Z < -1.8).

(a)
$$z = \boxed{0.92}$$

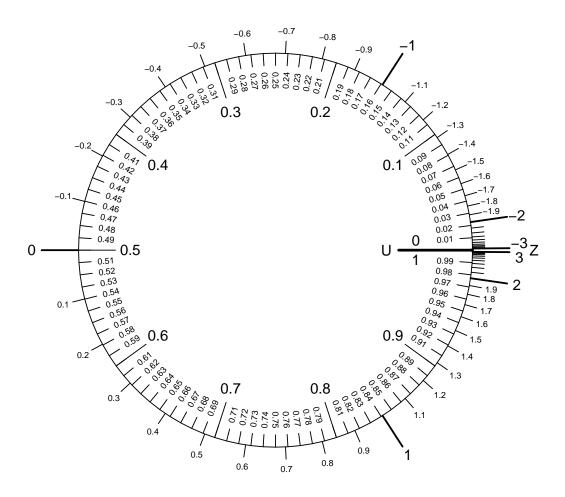
(b)
$$P(Z > 0.4) = \boxed{0.345}$$

(c)
$$P(-1.1 < Z < 1.4) = \boxed{0.783}$$

(d)
$$z = \boxed{-0.95}$$

(e)
$$P(Z < -1.8) = \boxed{0.036}$$

67. Problem:



- (a) Evaluate P(1.5 < Z < 1.7).
- (b) Determine z such that P(Z > z) = 0.92.
- (c) Evaluate P(Z < -0.1).
- (d) Evaluate P(Z > -0.2).
- (e) Determine z such that P(Z < z) = 0.33.

(a)
$$P(1.5 < Z < 1.7) = \boxed{0.022}$$

(b)
$$z = \boxed{-1.41}$$

(c)
$$P(Z < -0.1) = \boxed{0.46}$$

(d)
$$P(Z > -0.2) = \boxed{0.579}$$

(e)
$$z = \boxed{-0.44}$$

68. Problem:



- (a) Determine z such that P(Z > z) = 0.98.
- (b) Evaluate P(Z > 0.1).
- (c) Determine z such that P(Z < z) = 0.54.
- (d) Evaluate P(-0.2 < Z < 0.2).
- (e) Evaluate P(Z < 0.7).

(a)
$$z = -2.05$$

(b)
$$P(Z > 0.1) = \boxed{0.46}$$

(c)
$$Z = \boxed{0.1}$$

(d)
$$P(-0.2 < Z < 0.2) = \boxed{0.158}$$

(e)
$$P(Z < 0.7) = \boxed{0.758}$$

69. Problem:



- (a) Determine z such that P(Z < z) = 0.03.
- (b) Evaluate P(Z > 0.9).
- (c) Evaluate P(-1.6 < Z < 1).
- (d) Determine z such that P(Z > z) = 0.03.
- (e) Evaluate P(Z < -1.5).

(a)
$$z = \boxed{-1.88}$$

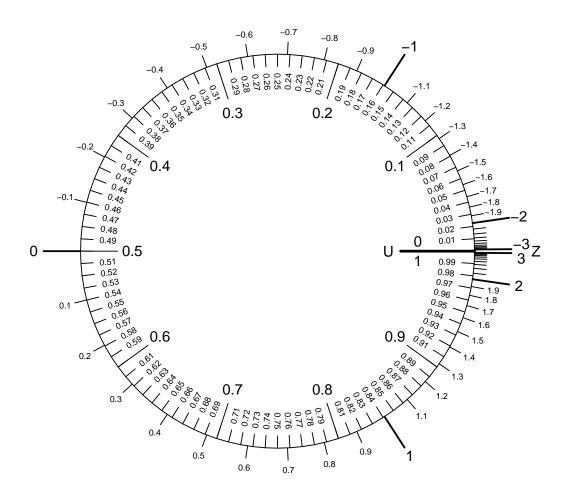
(b)
$$P(Z > 0.9) = \boxed{0.184}$$

(c)
$$P(-1.6 < Z < 1) = \boxed{0.786}$$

(d)
$$Z = \boxed{1.88}$$

(e)
$$P(Z < -1.5) = \boxed{0.067}$$

70. Problem:



- (a) Evaluate P(Z < -0.8).
- (b) Determine z such that P(Z < z) = 0.27.
- (c) Evaluate P(Z > -0.6).
- (d) Determine z such that P(Z > z) = 0.13.
- (e) Evaluate P(-0.8 < Z < 0).

(a)
$$P(Z < -0.8) = \boxed{0.212}$$

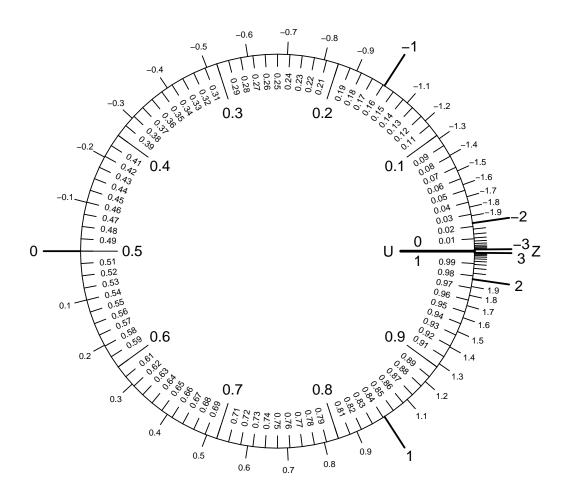
(b)
$$z = \boxed{-0.61}$$

(c)
$$P(Z > -0.6) = \boxed{0.726}$$

(d)
$$Z = \boxed{1.13}$$

(e)
$$P(-0.8 < Z < 0) = \boxed{0.288}$$

71. Problem:



- (a) Determine z such that P(Z > z) = 0.64.
- (b) Evaluate P(1 < Z < 1.7).
- (c) Evaluate P(Z > 0.6).
- (d) Evaluate P(Z < 0.5).
- (e) Determine z such that P(Z < z) = 0.81.

(a)
$$z = \boxed{-0.36}$$

(b)
$$P(1 < Z < 1.7) = \boxed{0.114}$$

(c)
$$P(Z > 0.6) = \boxed{0.274}$$

(d)
$$P(Z < 0.5) = \boxed{0.691}$$

(e)
$$z = 0.88$$

72. Problem:



- (a) Evaluate P(Z > -0.2).
- (b) Determine z such that P(Z > z) = 0.55.
- (c) Determine z such that P(Z < z) = 0.35.
- (d) Evaluate P(-0.8 < Z < -0.6).
- (e) Evaluate P(Z < -0.7).

(a)
$$P(Z > -0.2) = \boxed{0.579}$$

(b)
$$z = \boxed{-0.13}$$

(c)
$$z = \boxed{-0.39}$$

(d)
$$P(-0.8 < Z < -0.6) = \boxed{0.062}$$

(e)
$$P(Z < -0.7) = \boxed{0.242}$$

73. Problem:



- (a) Evaluate P(-1.6 < Z < 0.6).
- (b) Evaluate P(Z > -0.4).
- (c) Evaluate P(Z < 0.7).
- (d) Determine z such that P(Z > z) = 0.23.
- (e) Determine z such that P(Z < z) = 0.18.

(a)
$$P(-1.6 < Z < 0.6) = \boxed{0.671}$$

(b)
$$P(Z > -0.4) = \boxed{0.655}$$

(c)
$$P(Z < 0.7) = \boxed{0.758}$$

(d)
$$Z = \boxed{0.74}$$

(e)
$$z = \boxed{-0.92}$$

74. Problem:



- (a) Evaluate P(Z < -0.5).
- (b) Determine z such that P(Z < z) = 0.11.
- (c) Evaluate P(-1.7 < Z < -0.4).
- (d) Determine z such that P(Z > z) = 0.48.
- (e) Evaluate P(Z > 0.2).

(a)
$$P(Z < -0.5) = \boxed{0.309}$$

(b)
$$z = \boxed{-1.23}$$

(c)
$$P(-1.7 < Z < -0.4) = \boxed{0.3}$$

(d)
$$Z = \boxed{0.05}$$

(e)
$$P(Z > 0.2) = \boxed{0.421}$$

75. Problem:



- (a) Determine z such that P(Z < z) = 0.65.
- (b) Evaluate P(-0.2 < Z < 1.3).
- (c) Evaluate P(Z < 0.2).
- (d) Determine z such that P(Z > z) = 0.48.
- (e) Evaluate P(Z > 0.2).

(a)
$$z = \boxed{0.39}$$

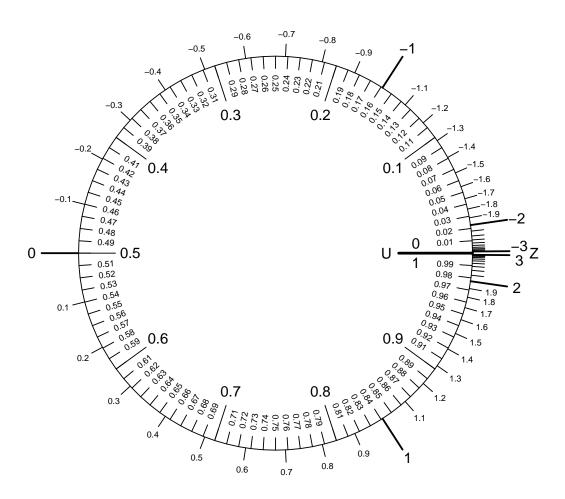
(b)
$$P(-0.2 < Z < 1.3) = \boxed{0.482}$$

(c)
$$P(Z < 0.2) = \boxed{0.579}$$

(d)
$$z = 0.05$$

(e)
$$P(Z > 0.2) = \boxed{0.421}$$

76. Problem:



- (a) Evaluate P(1 < Z < 1.2).
- (b) Evaluate P(Z > -2.1).
- (c) Determine z such that P(Z < z) = 0.53.
- (d) Determine z such that P(Z > z) = 0.59.
- (e) Evaluate P(Z < 1.3).

(a)
$$P(1 < Z < 1.2) = 0.044$$

(b)
$$P(Z > -2.1) = \boxed{0.982}$$

(c)
$$z = \boxed{0.08}$$

(d)
$$z = \boxed{-0.23}$$

(e)
$$P(Z < 1.3) = \boxed{0.903}$$

77. Problem:



- (a) Determine z such that P(Z < z) = 0.56.
- (b) Determine z such that P(Z > z) = 0.35.
- (c) Evaluate P(Z > -0.1).
- (d) Evaluate P(-1.8 < Z < -0.1).
- (e) Evaluate P(Z < -0.6).

(a)
$$z = \boxed{0.15}$$

(b)
$$z = \boxed{0.39}$$

(c)
$$P(Z > -0.1) = \boxed{0.54}$$

(d)
$$P(-1.8 < Z < -0.1) = \boxed{0.424}$$

(e)
$$P(Z < -0.6) = \boxed{0.274}$$

78. Problem:



- (a) Evaluate P(-1.3 < Z < 0.2).
- (b) Evaluate P(Z < 1).
- (c) Evaluate P(Z > 0.4).
- (d) Determine z such that P(Z < z) = 0.17.
- (e) Determine z such that P(Z > z) = 0.38.

(a)
$$P(-1.3 < Z < 0.2) = \boxed{0.482}$$

(b)
$$P(Z < 1) = \boxed{0.841}$$

(c)
$$P(Z > 0.4) = \boxed{0.345}$$

(d)
$$z = \boxed{-0.95}$$

(e)
$$z = \boxed{0.31}$$

79. Problem:



- (a) Evaluate P(Z < 0.5).
- (b) Evaluate P(Z > -1.1).
- (c) Evaluate P(-1 < Z < 0.9).
- (d) Determine z such that P(Z < z) = 0.72.
- (e) Determine z such that P(Z > z) = 0.92.

(a)
$$P(Z < 0.5) = \boxed{0.691}$$

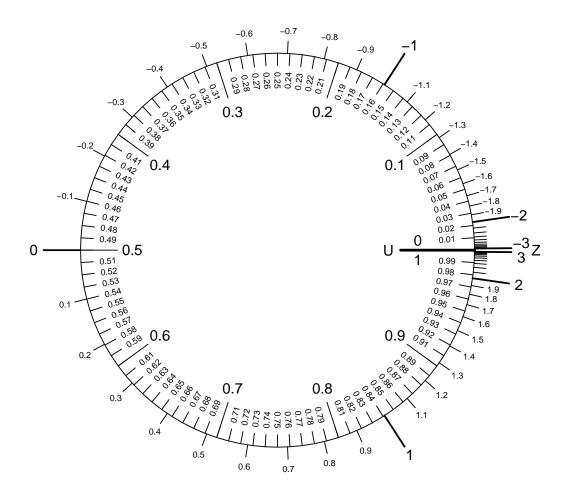
(b)
$$P(Z > -1.1) = \boxed{0.864}$$

(c)
$$P(-1 < Z < 0.9) = \boxed{0.657}$$

(d)
$$z = 0.58$$

(e)
$$z = \boxed{-1.41}$$

80. Problem:



- (a) Evaluate P(Z < 0.6).
- (b) Determine z such that P(Z > z) = 0.11.
- (c) Evaluate P(Z > -1.5).
- (d) Evaluate P(-0.7 < Z < 2.2).
- (e) Determine z such that P(Z < z) = 0.95.

(a)
$$P(Z < 0.6) = \boxed{0.726}$$

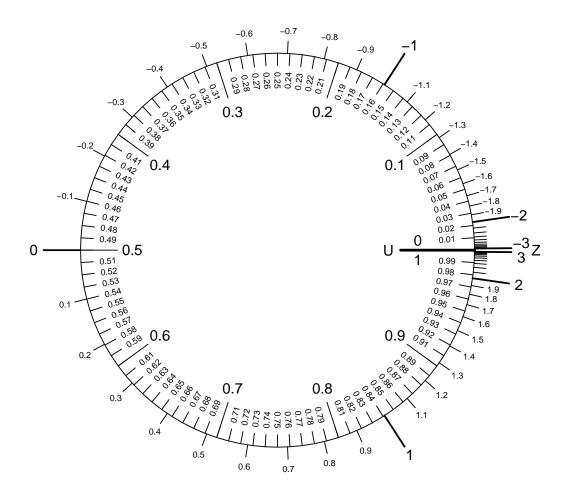
(b)
$$z = \boxed{1.23}$$

(c)
$$P(Z > -1.5) = \boxed{0.933}$$

(d)
$$P(-0.7 < Z < 2.2) = \boxed{0.744}$$

(e)
$$z = \boxed{1.64}$$

81. Problem:



- (a) Evaluate P(Z < 0.2).
- (b) Determine z such that P(Z > z) = 0.4.
- (c) Evaluate P(0.1 < Z < 0.7).
- (d) Evaluate P(Z > 1.4).
- (e) Determine z such that P(Z < z) = 0.55.

(a)
$$P(Z < 0.2) = \boxed{0.579}$$

(b)
$$z = \boxed{0.25}$$

(c)
$$P(0.1 < Z < 0.7) = \boxed{0.218}$$

(d)
$$P(Z > 1.4) = \boxed{0.081}$$

(e)
$$z = \boxed{0.13}$$

82. Problem:



- (a) Determine z such that P(Z < z) = 0.32.
- (b) Evaluate P(Z > -0.1).
- (c) Determine z such that P(Z > z) = 0.46.
- (d) Evaluate P(-2.2 < Z < -0.8).
- (e) Evaluate P(Z < -1.4).

(a)
$$z = \boxed{-0.47}$$

(b)
$$P(Z > -0.1) = \boxed{0.54}$$

(c)
$$Z = \boxed{0.1}$$

(d)
$$P(-2.2 < Z < -0.8) = \boxed{0.198}$$

(e)
$$P(Z < -1.4) = \boxed{0.081}$$

83. Problem:



- (a) Evaluate P(-1.8 < Z < -1.5).
- (b) Evaluate P(Z < -0.4).
- (c) Determine z such that P(Z < z) = 0.68.
- (d) Evaluate P(Z > 0.5).
- (e) Determine z such that P(Z > z) = 0.4.

(a)
$$P(-1.8 < Z < -1.5) = \boxed{0.031}$$

(b)
$$P(Z < -0.4) = \boxed{0.345}$$

(c)
$$Z = \boxed{0.47}$$

(d)
$$P(Z > 0.5) = \boxed{0.309}$$

(e)
$$z = \boxed{0.25}$$

84. Problem:



- (a) Evaluate P(Z < -0.7).
- (b) Determine z such that P(Z < z) = 0.19.
- (c) Determine z such that P(Z > z) = 0.14.
- (d) Evaluate P(-1.6 < Z < -1.3).
- (e) Evaluate P(Z > -1.4).

(a)
$$P(Z < -0.7) = \boxed{0.242}$$

(b)
$$z = \boxed{-0.88}$$

(c)
$$Z = \boxed{1.08}$$

(d)
$$P(-1.6 < Z < -1.3) = \boxed{0.042}$$

(e)
$$P(Z > -1.4) = \boxed{0.919}$$

85. Problem:



- (a) Evaluate P(Z > -1.2).
- (b) Determine z such that P(Z < z) = 0.12.
- (c) Evaluate P(1.7 < Z < 2).
- (d) Determine z such that P(Z > z) = 0.0600000000000001.
- (e) Evaluate P(Z < 0.5).

(a)
$$P(Z > -1.2) = \boxed{0.885}$$

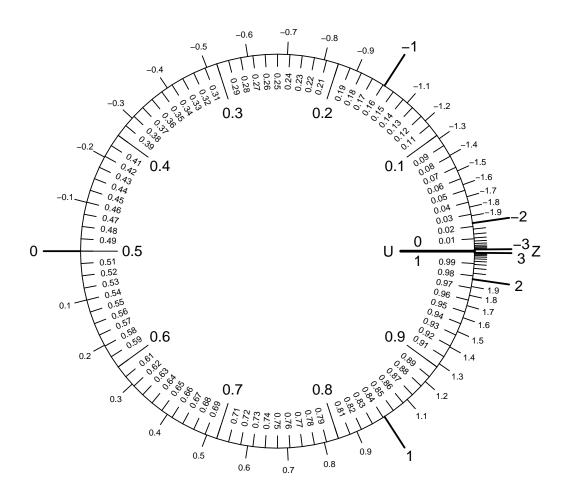
(b)
$$z = \boxed{-1.17}$$

(c)
$$P(1.7 < Z < 2) = \boxed{0.022}$$

(d)
$$Z = \boxed{1.55}$$

(e)
$$P(Z < 0.5) = \boxed{0.691}$$

86. Problem:



- (a) Determine z such that P(Z < z) = 0.98.
- (b) Evaluate P(Z < 1.8).
- (c) Evaluate P(-1.8 < Z < 0).
- (d) Determine z such that P(Z > z) = 0.73.
- (e) Evaluate P(Z > 0.7).

(a)
$$z = 2.05$$

(b)
$$P(Z < 1.8) = \boxed{0.964}$$

(c)
$$P(-1.8 < Z < 0) = \boxed{0.464}$$

(d)
$$z = -0.61$$

(e)
$$P(Z > 0.7) = \boxed{0.242}$$

87. Problem:



- (a) Evaluate P(Z < -0.5).
- (b) Determine z such that P(Z > z) = 0.98.
- (c) Evaluate P(-1.3 < Z < 1.3).
- (d) Determine z such that P(Z < z) = 0.48.
- (e) Evaluate P(Z > -0.3).

(a)
$$P(Z < -0.5) = \boxed{0.309}$$

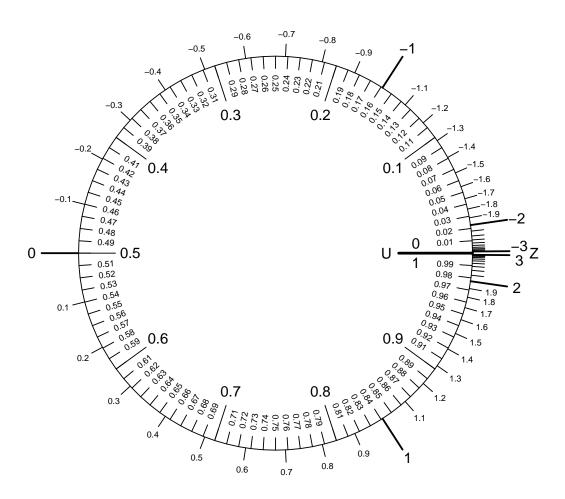
(b)
$$z = -2.05$$

(c)
$$P(-1.3 < Z < 1.3) = \boxed{0.806}$$

(d)
$$z = \boxed{-0.05}$$

(e)
$$P(Z > -0.3) = \boxed{0.618}$$

88. Problem:



- (a) Evaluate P(Z < 0.4).
- (b) Determine z such that P(Z < z) = 0.86.
- (c) Evaluate P(Z > -0.3).
- (d) Determine z such that P(Z > z) = 0.22.
- (e) Evaluate P(-0.5 < Z < 0.6).

(a)
$$P(Z < 0.4) = \boxed{0.655}$$

(b)
$$z = 1.08$$

(c)
$$P(Z > -0.3) = \boxed{0.618}$$

(d)
$$z = \boxed{0.77}$$

(e)
$$P(-0.5 < Z < 0.6) = \boxed{0.417}$$

89. Problem:



- (a) Determine z such that P(Z > z) = 0.09.
- (b) Determine z such that P(Z < z) = 0.37.
- (c) Evaluate P(Z > 1.3).
- (d) Evaluate P(Z < 0.1).
- (e) Evaluate P(-0.7 < Z < 0.9).

(a)
$$z = \boxed{1.34}$$

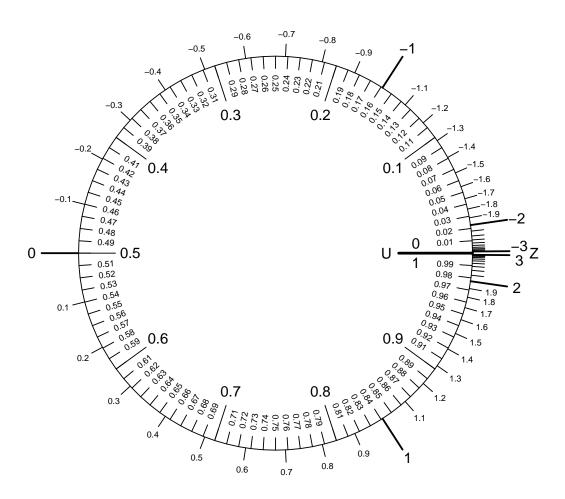
(b)
$$z = \begin{bmatrix} -0.33 \end{bmatrix}$$

(c)
$$P(Z > 1.3) = \boxed{0.097}$$

(d)
$$P(Z < 0.1) = \boxed{0.54}$$

(e)
$$P(-0.7 < Z < 0.9) = \boxed{0.574}$$

90. Problem:



- (a) Evaluate P(Z < 0.3).
- (b) Determine z such that P(Z > z) = 0.67.
- (c) Determine z such that P(Z < z) = 0.55.
- (d) Evaluate P(Z > -0.9).
- (e) Evaluate P(-1.2 < Z < -0.7).

(a)
$$P(Z < 0.3) = \boxed{0.618}$$

(b)
$$z = \boxed{-0.44}$$

(c)
$$z = \boxed{0.13}$$

(d)
$$P(Z > -0.9) = \boxed{0.816}$$

(e)
$$P(-1.2 < Z < -0.7) = \boxed{0.127}$$

91. Problem:



- (a) Evaluate P(-1.7 < Z < -1.1).
- (b) Evaluate P(Z < -1.9).
- (c) Evaluate P(Z > -0.3).
- (d) Determine z such that P(Z < z) = 0.22.
- (e) Determine z such that P(Z > z) = 0.44.

(a)
$$P(-1.7 < Z < -1.1) = \boxed{0.091}$$

(b)
$$P(Z < -1.9) = \boxed{0.029}$$

(c)
$$P(Z > -0.3) = \boxed{0.618}$$

(d)
$$z = \boxed{-0.77}$$

(e)
$$z = \boxed{0.15}$$

92. Problem:



- (a) Evaluate P(Z < 0).
- (b) Determine z such that P(Z < z) = 0.84.
- (c) Determine z such that P(Z > z) = 0.16.
- (d) Evaluate P(Z > -0.3).
- (e) Evaluate P(-0.5 < Z < 0.4).

(a)
$$P(Z < 0) = \boxed{0.5}$$

(b)
$$z = 0.99$$

(c)
$$Z = \boxed{0.99}$$

(d)
$$P(Z > -0.3) = \boxed{0.618}$$

(e)
$$P(-0.5 < Z < 0.4) = \boxed{0.346}$$

93. Problem:



- (a) Evaluate P(Z > 1.6).
- (b) Evaluate P(-1.8 < Z < 0.8).
- (c) Evaluate P(Z < -1.3).
- (d) Determine z such that P(Z > z) = 0.66.
- (e) Determine z such that P(Z < z) = 0.03.

(a)
$$P(Z > 1.6) = \boxed{0.055}$$

(b)
$$P(-1.8 < Z < 0.8) = \boxed{0.752}$$

(c)
$$P(Z < -1.3) = \boxed{0.097}$$

(d)
$$z = \boxed{-0.41}$$

(e)
$$z = \boxed{-1.88}$$

94. Problem:



- (a) Determine z such that P(Z > z) = 0.91.
- (b) Evaluate P(Z < -0.1).
- (c) Evaluate P(Z > 0.7).
- (d) Evaluate P(-0.4 < Z < 0.7).
- (e) Determine z such that P(Z < z) = 0.67.

(a)
$$z = \boxed{-1.34}$$

(b)
$$P(Z < -0.1) = \boxed{0.46}$$

(c)
$$P(Z > 0.7) = \boxed{0.242}$$

(d)
$$P(-0.4 < Z < 0.7) = \boxed{0.413}$$

(e)
$$Z = \boxed{0.44}$$

95. Problem:



- (a) Evaluate P(Z < -0.1).
- (b) Evaluate P(Z > -0.9).
- (c) Evaluate P(0 < Z < 1.6).
- (d) Determine z such that P(Z < z) = 0.05.
- (e) Determine z such that P(Z > z) = 0.64.

(a)
$$P(Z < -0.1) = \boxed{0.46}$$

(b)
$$P(Z > -0.9) = \boxed{0.816}$$

(c)
$$P(0 < Z < 1.6) = \boxed{0.445}$$

(d)
$$z = \boxed{-1.64}$$

(e)
$$z = \boxed{-0.36}$$

96. Problem:



- (a) Determine z such that P(Z < z) = 0.23.
- (b) Determine z such that P(Z > z) = 0.33.
- (c) Evaluate P(Z > -1.1).
- (d) Evaluate P(0.3 < Z < 1.4).
- (e) Evaluate P(Z < 0.3).

(a)
$$z = \boxed{-0.74}$$

(b)
$$z = \boxed{0.44}$$

(c)
$$P(Z > -1.1) = \boxed{0.864}$$

(d)
$$P(0.3 < Z < 1.4) = \boxed{0.301}$$

(e)
$$P(Z < 0.3) = \boxed{0.618}$$

97. Problem:



- (a) Determine z such that P(Z > z) = 0.84.
- (b) Evaluate P(Z > 0.9).
- (c) Evaluate P(-0.6 < Z < 0.1).
- (d) Determine z such that P(Z < z) = 0.22.
- (e) Evaluate P(Z < 0.1).

(a)
$$z = \boxed{-0.99}$$

(b)
$$P(Z > 0.9) = \boxed{0.184}$$

(c)
$$P(-0.6 < Z < 0.1) = \boxed{0.266}$$

(d)
$$z = \boxed{-0.77}$$

(e)
$$P(Z < 0.1) = \boxed{0.54}$$

98. Problem:



- (a) Determine z such that P(Z > z) = 0.31.
- (b) Evaluate P(0 < Z < 0.5).
- (c) Evaluate P(Z > 1).
- (d) Determine z such that P(Z < z) = 0.54.
- (e) Evaluate P(Z < -0.1).

(a)
$$z = 0.5$$

(b)
$$P(0 < Z < 0.5) = \boxed{0.191}$$

(c)
$$P(Z > 1) = \boxed{0.159}$$

(d)
$$Z = \boxed{0.1}$$

(e)
$$P(Z < -0.1) = \boxed{0.46}$$

99. Problem:



- (a) Evaluate P(Z > -1.7).
- (b) Evaluate P(Z < 0.6).
- (c) Evaluate P(-1.2 < Z < 0.9).
- (d) Determine z such that P(Z < z) = 0.18.
- (e) Determine z such that P(Z > z) = 0.55.

(a)
$$P(Z > -1.7) = \boxed{0.955}$$

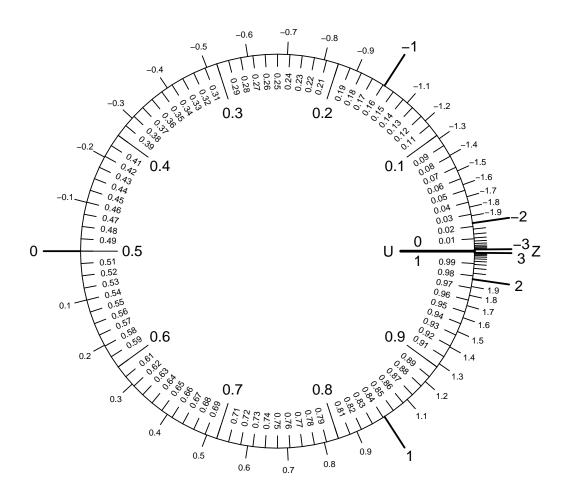
(b)
$$P(Z < 0.6) = \boxed{0.726}$$

(c)
$$P(-1.2 < Z < 0.9) = \boxed{0.701}$$

(d)
$$z = \boxed{-0.92}$$

(e)
$$z = \boxed{-0.13}$$

100. Problem:



- (a) Determine z such that P(Z > z) = 0.26.
- (b) Evaluate P(Z > 0.6).
- (c) Determine z such that P(Z < z) = 0.77.
- (d) Evaluate P(Z < -0.7).
- (e) Evaluate P(-0.6 < Z < 0).

(a)
$$z = \boxed{0.64}$$

(b)
$$P(Z > 0.6) = \boxed{0.274}$$

(c)
$$Z = \boxed{0.74}$$

(d)
$$P(Z < -0.7) = \boxed{0.242}$$

(e)
$$P(-0.6 < Z < 0) = \boxed{0.226}$$