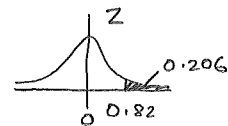
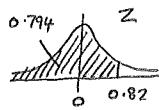


$$Z \sim N(0,1)$$

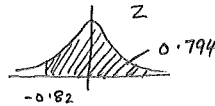
$$1. P(Z > 0.82) = \underline{0.206108} \quad \text{from norm Cdf}(0.82, 9E99)$$



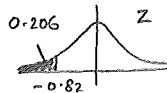
$$2. P(Z < 0.82) = 1 - 0.206 \\ = \underline{0.794}$$



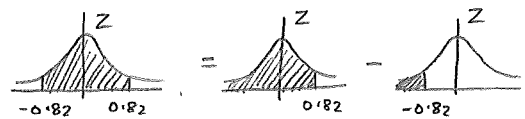
$$3. P(Z > -0.82) = P(Z < 0.82) \\ = \underline{0.794}$$



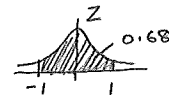
$$4. P(Z < -0.82) = P(Z > 0.82) \\ = \underline{0.206}$$



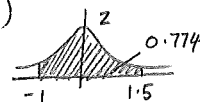
$$5. P(-0.82 < Z < 0.82) = P(Z < 0.82) - P(Z < -0.82) \\ = 0.794 - 0.206 \\ = \underline{0.588}$$



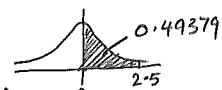
$$6. P(-1 < Z < 1) = \underline{0.682689} \quad \text{from norm Cdf}(-1, 1)$$



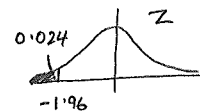
$$7. P(-1 < Z < 1.5) = \underline{0.774538} \quad \text{from norm Cdf}(-1, 1.5)$$



$$8. P(0 < Z < 2.5) = \underline{0.49379} \quad \text{from norm Cdf}(0, 2.5)$$



$$9. P(Z < -1.96) = 0.024998 \quad \text{from norm Cdf}(-9E99, -1.96)$$



$$10. P(-1.96 < Z < 1.96) = 1 - 2 \times 0.024998 \\ = \underline{0.950004}$$

