Part 1 (Objective Type): Select all that are true.

1. Which of the following is equal to $\Phi(2.3)$?

(a)
$$\int_{-\infty}^{2.3} \frac{1}{\sqrt{2\pi}} e^{-\frac{1}{2}z^2} dz$$

(b)
$$P(Z < 2.3)$$

(c)
$$P(Z \le 2.3)$$

(d)
$$P(0 < Z < 2.3)$$

(e)
$$P(-\infty < Z < 2.3)$$

2.
$$\Phi(-2.3) =$$

(a)
$$P(X < -2.3)$$

(b)
$$1 - \Phi(2.3)$$

(c)
$$P(-\infty < Z < -2.3)$$

(d) =
$$1 - P(-\infty < Z < 2.3)$$

(e)
$$1 - P(Z > 2.3)$$

3.
$$P(-2 < X < 2) =$$

(a)
$$P(-2 < Z < 2)$$

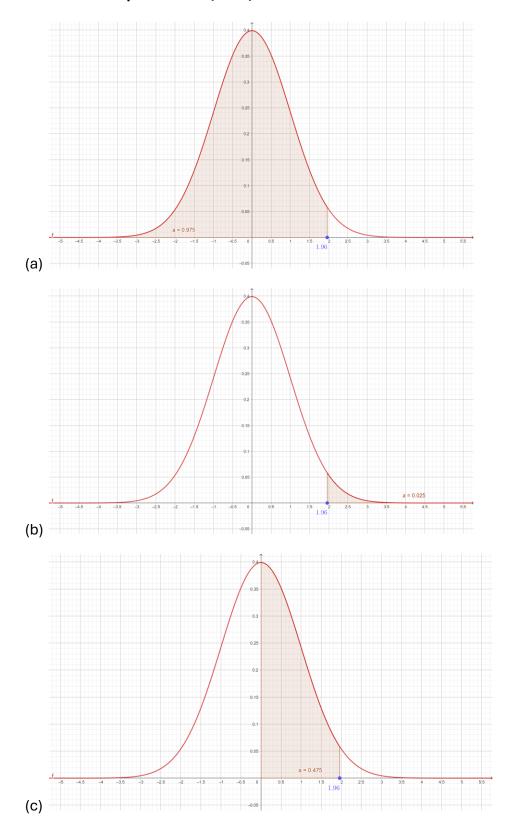
(b)
$$\Phi(2) - \Phi(-2)$$

(c)
$$F(2) - F(-2)$$

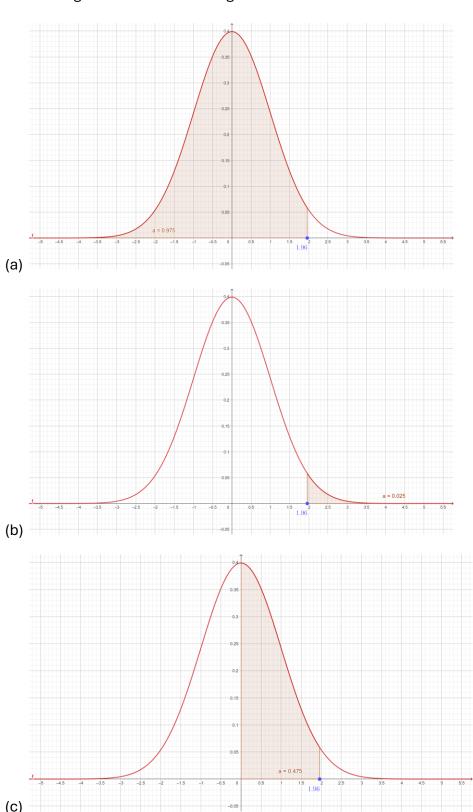
(d)
$$\int_{-2}^{2} \frac{1}{\sigma \sqrt{2\pi}} e^{-\frac{1}{2} \left(\frac{X-\mu}{\sigma}\right)^2} dx$$

(e)
$$P(X < 2) - P(X < -2)$$

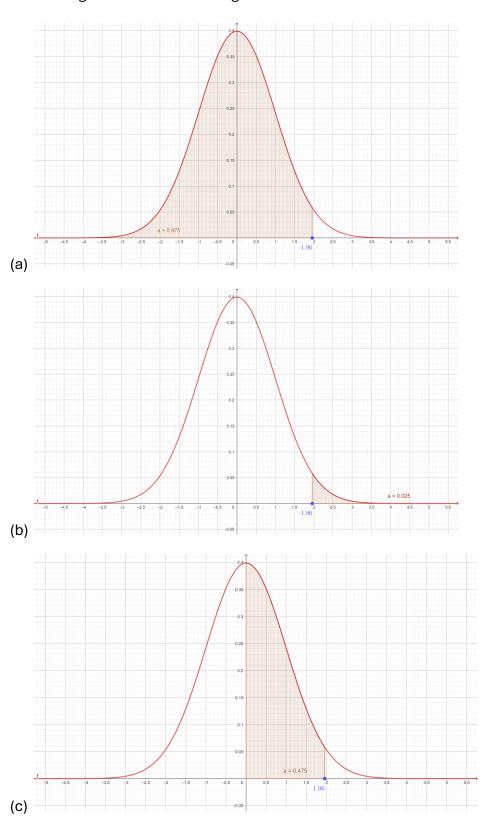
4. Which Area represents $\Phi(1.96)$?



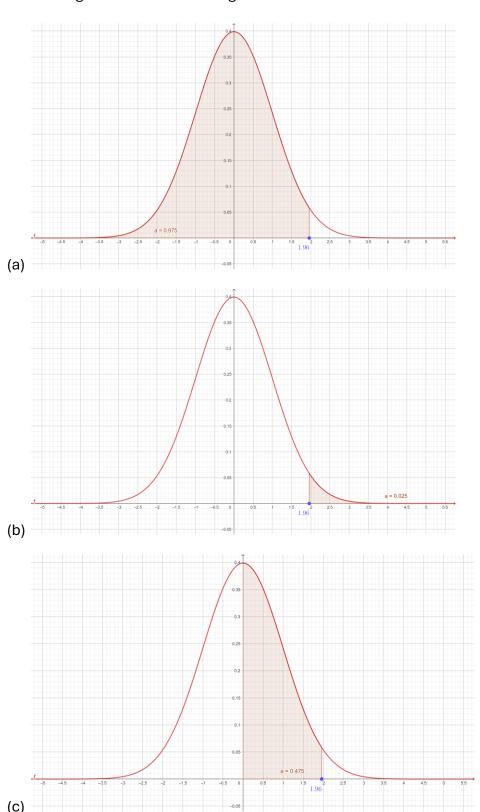
5. In CASIO Calculator, MODE > STAT > AC > SHIFT > 1 > Distr > P(1.96), used for calculating which of the following area?



6. In CASIO Calculator, MODE > STAT > AC > SHIFT > 1 > Distr > Q(1.96), used for calculating which of the following area?



7. In CASIO Calculator, MODE > STAT > AC > SHIFT > 1 > Distr > R(1.96), used for calculating which of the following area?



8.	Which of the following CASIO Function is equivalent to $\Phi(2)$?
	(a) MODE > STAT > AC > SHIFT > 1 > Distr > R(2)
	(b) MODE > STAT > AC > SHIFT > 1 > Distr > P(2)
	(c) MODE > STAT > AC > SHIFT > 1 > Distr > Q(2)
9.	Which of the following CASIO Function is equivalent to $1-\Phi(2)$?
	(a) MODE > STAT > AC > SHIFT > 1 > Distr > R(2)
	(b) MODE > STAT > AC > SHIFT > 1 > Distr > P(2)
	(c) MODE > STAT > AC > SHIFT > 1 > Distr > Q(2)
10	. Which of the following CASIO Function is equivalent to $P(0 < Z < 2)$?
	(a) MODE > STAT > AC > SHIFT > 1 > Distr > R(2)
	(b) MODE > STAT > AC > SHIFT > 1 > Distr > P(2)
	(c) MODE > STAT > AC > SHIFT > 1 > Distr > Q(2)
11	. Fill in the blanks.
	(a) $\Phi(-\infty) =$ (b) $\Phi(+\infty) =$ (c) $\Phi(0) =$
12	. $\Phi(2.324)$ and $\Phi^{-1}(0.7865)$ must be calculated through when
	we are using statistical tables for standard normal distribution instead of
	using direct calculations from machine or evaluating definite integral.
	(a) Iteration
	(b) Interpolation
	(c) Simulation
	(d) Binomial Theorem