Normal Probability

Let
$$X \sim N(-3,8)$$
, Find $\mathbb{P}(-8.2 < X \le 1.64)$.

You can use the following Normal Table.

Answer = number (3 significant figures)

Save & Grade Seve only

New Variant

$$\mathcal{L} = -3, \qquad \mathcal{T}^{-2} = 8 \qquad \mathcal{T} \qquad \mathcal{T} = \mathcal{T}^{-3}, \qquad \mathcal{T} \sim \mathcal{N}(0,1)$$

$$\mathbb{P}(-8.2 < X \le 4,64) = \mathbb{P}(-8.2 < \sqrt{8} \times 2 - 3, \qquad \mathcal{T} \sim \mathcal{N}(0,1)$$

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$$+P(X=4, Y=5) + P(X=4, Y=7)$$

$$= 0.(1+0.27 + 0.01 + 0.1 = 0.49$$

 $P(2\times7Y) = P(x=1, Y=3) + P(x=4, Y=3)$