

Section 3.5b - Applying the Normal Distribution

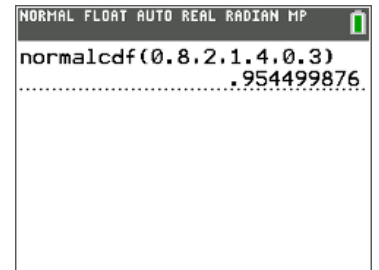
MDM4U

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Height of cacti are normally distributed with a mean of 1.4 m and a standard deviation of 0.3 m.

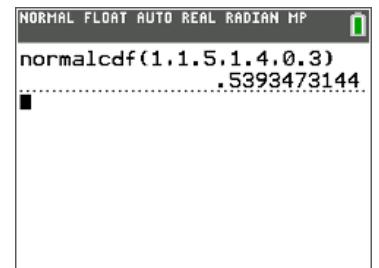
1. 68% of the cacti are between...

2. What percent of cacti are between 0.8 and 2m tall?



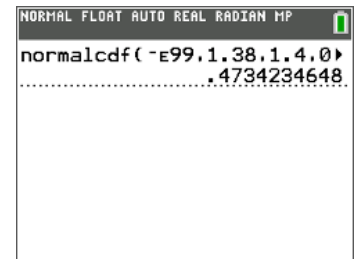
NORMAL FLOAT AUTO REAL RADIAN MP
normalcdf(0.8,2,1.4,0.3)
.....954499876

3. What percent of cacti are between 1.0 and 1.5 meters tall?



NORMAL FLOAT AUTO REAL RADIAN MP
normalcdf(1.0,1.5,1.4,0.3)
.....5393473144

4. What percent of cacti are less than 1.38 meters tall?

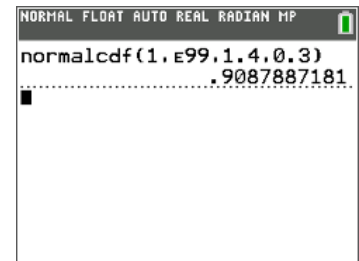


NORMAL FLOAT AUTO REAL RADIAN MP

normalcdf(-E99, 1.38, 1.4, 0.3)

.4734234648

5. What percent of cacti are likely more than 1.0 meters tall?

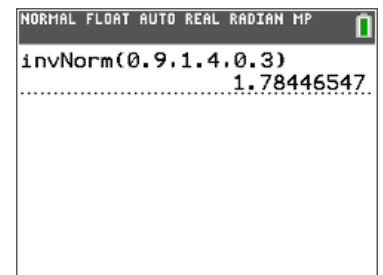


NORMAL FLOAT AUTO REAL RADIAN MP

normalcdf(1, E99, 1.4, 0.3)

.9087887181

6. Find the 90th percentile of cactus height...



NORMAL FLOAT AUTO REAL RADIAN MP

invNorm(0.9, 1.4, 0.3)

1.78446547