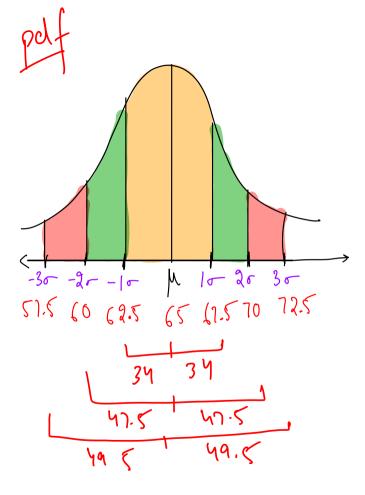
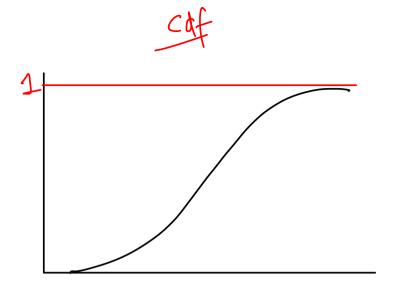
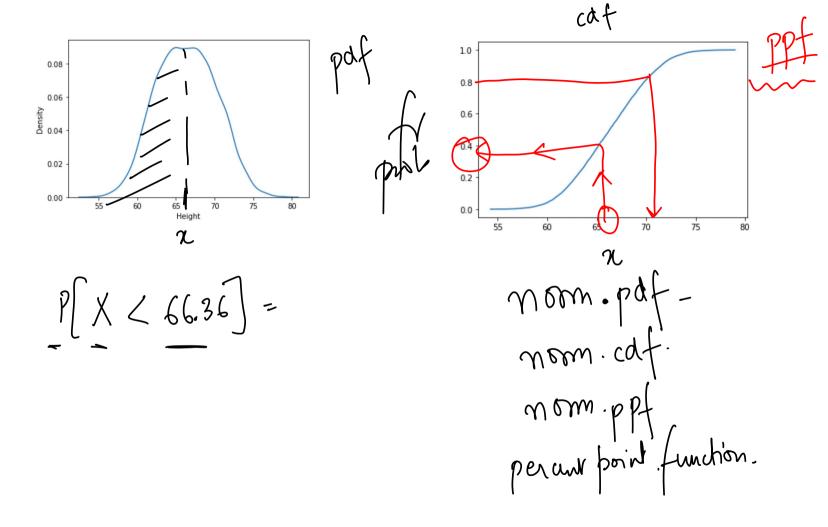
Graussian Mishibution - 2







M=66.3675 Z = 2 - M j= (6-36)5 =66.3675-66.3675 r = 3.847 = 03.847

fraction/prob scalc SOU DD Lycopar/

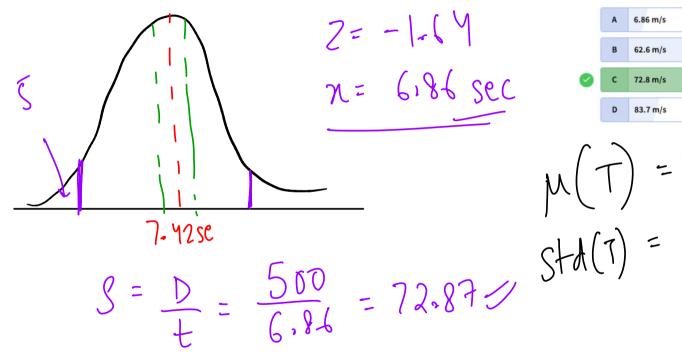
P(62/X/277.5)= M= 66.36 Std = 3.84 nom.cdf(-) What is the 95th berentile?

Balls produced by a manufacturer have a mean = 50mm and standard deviation = 2 mm.
Assume Gaussian.

- (a) p[46 < X < 54]
- (b) Fraction of balls with diameter less than 53mm?

## Skaters take an average of 7.42 seconds and Standard Deviation of 0.34 secs for 500m.

If I want to be faster than 95% of the people, what should be my speed?

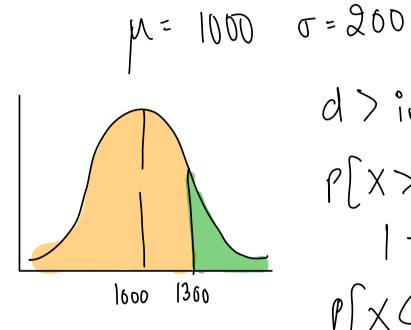


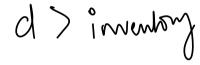
$$\mu(T) = 7.42 \text{ sec}$$
  
Sta(7) = 0.345ec

A retail outlet sells around 1000 toothpaste per week. The Std. of sales is 200.

If the on-hand inventory is around 1300. What is need of

replenishment?





$$1 - 0$$
 yange = 6 recov  
 $P[X(1300) = 0.933$   
 $P[X)1300 = 1 - 0.933 = 0.067$ 

0.120

36%

32%

20%

12%