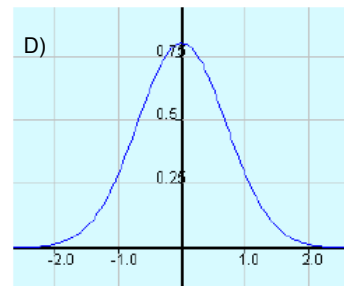
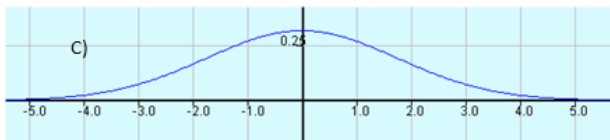
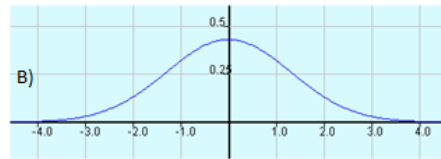
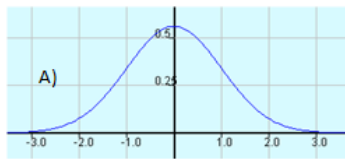


Example 3:

- a) Which normal distribution curve has the largest standard deviation?
How do you know?



- b) What happens to the shape of the graph as the standard deviation increases?
- c) Does the area under the curve change as the number of standard deviations changes?
- d) Does the area under the curve change as the value of the standard deviation changes?

→

Example 5:

The senior girls and senior boys hockey team travel to Moncton for a tournament. The masses of their sports equipment was recorded at the check-in counter. The masses were normally distributed with these characteristics:

Team	μ (kg)	σ (kg)
Girls	12.2	0.8
Boys	12.2	1.2

a) On the same graph sketch the distribution of the masses of the luggage.


b) How does the standard deviation affect the shape of each graph?





- c) The boys team won a silver medal! Each player gets a medal, a souvenir hockey puck and a winter hat that adds 1.3 lbs to their luggage. How would this affect the sketch of their distribution?


pg. 279 - 281 #1 - 3, 6, 8, 10, 11, 13, 14


Attachments


 pm5s4-p10.tns


 5s4e1.mp4


 5s4e2.mp4

 5s4e3.mp4

 5s4e4.mp4

 bbar.gif

 rbar.gif

 dice-simulator.html