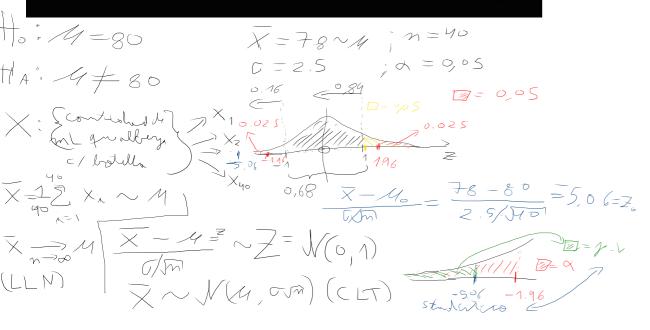
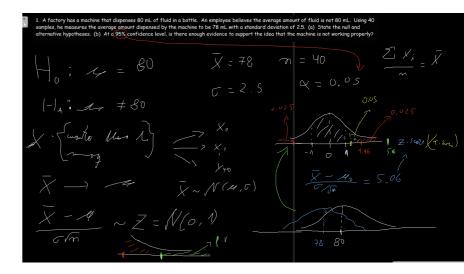
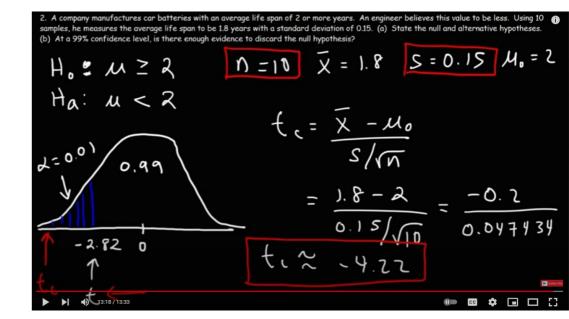
1. A factory has a machine that dispenses 80 mL of fluid in a bottle. An employee believes the average amount of fluid is not 80 mL. Using 400 samples, he measures the average amount dispensed by the machine to be 78 mL with a standard deviation of 2.5. (a) State the null and alternative hypotheses. (b) At a 95% confidence level, is there enough evidence to support the idea that the machine is not working properly?





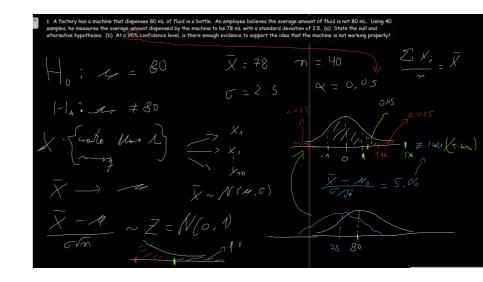
2. A company manufactures car batteries with an average life span of 2 or more years. An engineer believes this value to be less. Using 10 samples, he measures the average life span to be 1.8 years with a standard deviation of 0.15. (a) State the null and alternative hypotheses.

(b) At a 99% confidence level, is there enough evidence to discard the null hypothesis?



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$$(x_1, x_2)$$

$$\chi = \begin{pmatrix} x_1 \\ x_2 \\ x_m \end{pmatrix}$$

$$(x_1, x_2, x_3)$$