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## CHAPTER 6. EXPONENTIAL AND LOGARITHMIC FUNCTIONS

6.2 C. The function f(x) = 3x - 2 is a one-to-one function. Find the inverse function  $f^{-1}$ .

(a)  $f^{-1}(x) = \frac{1}{3x - 2}$ (b)  $f^{-1}(x) = \frac{1}{2}x + \frac{3}{2}$ (c)  $f^{-1}(x) = \frac{1}{2}x - \frac{3}{2}$ (d)  $f^{-1}(x) = \frac{1}{3}x + \frac{2}{3}$ (e) None of these

6.2 #94. The period T of a simple pendulum is  $T = 2\pi \sqrt{\frac{x}{g}}$ , where x is its length and g is a constant (the acceleration due to gravity). Solve for x as a function of T.

(a) 
$$x = 2\pi \sqrt{\frac{T}{g}}$$
  
(b)  $x = \frac{gT}{2\pi}$   
(c)  $x = \frac{gT^2}{2\pi}$   
(d)  $x = \frac{gT^2}{4\pi^2}$   
(e) None of these

6.3 A. Which answer describes the graph of the exponential function  $f(x) = e^x$ ?

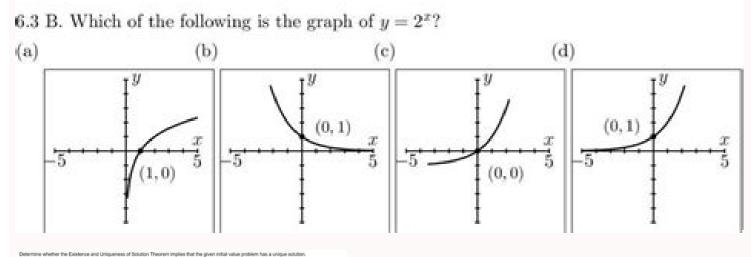
(a) The graph goes through (0, e) and decreases as x increases.

(b) The graph goes through (0, e) and increases as x increases.

(c) The graph goes through (0, 1) and decreases as x increases.

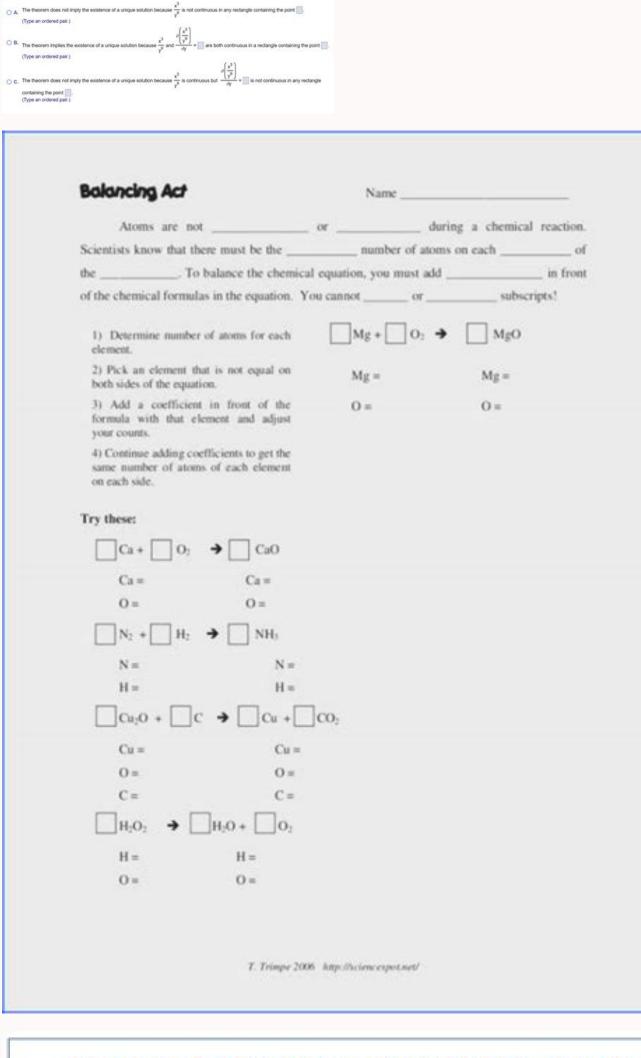
(d) The graph goes through (0, 1) and increases as x increases.

(e) The graph is a straight line through (1, e).



 $y^9 \frac{dy}{dx} = x^3$ , y(4) = 0

Select the correct choice below and fill in the answer b



## How to Solve Equations with Variables on Both Sides?

- 1. Use the distributive rule to remove any parenthesis.
- Add or subtract terms to get the variables on one side and the constants on the other.
- 3. Multiply or divide to isolate the variable

## Example:

5(x + 2) = 3x - 8 5x + 10 = 3x - 8 5x - 3x + 10 = 3x - 3x - 8 2x + 10 = -8 2x + 10 - 10 = -8 - 10 2x = -18 2x/2 = -18/2 x = -9Check: 5(-9 + 2) = 3(-9) - 8-35 = -35

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If the process at Ampcomp averages 99.75 ohms with a standard deviation of 0.2 ohm, what is the expected loss per unit? When examining this concept, one can intuitively incur that there is going to be a correlation between not meeting the quality target and waste of resources. The most famous case of this concept in practice was Ford's study of similar transmission parts manufactured by an overseas supplier (likely Mazda). a. Note: you can skip ahead to 5:08 where they discuss the specific study. It helps people realize that variation has a financial impact, and a company should not be complacent with quality just because they are meeting the specification limits. So, putting the respective values of 'd' and 'c' in the formula k=c/d2 we get k = 22.23. It can be determined by the relation k=c/d2. Even if it is acceptable to sell an orange on Day 3 or Day 7, those oranges are not as good as Day 5 oranges. To access the template, click on OI Macros, then Calculators, then DPMO | Yield | Cp/PPM | OEE. 10. This is where the customer is most satisfied (or least dissatisfied). In traditional approach, a product falling within the given specification limits is considered as a good product. Learn more about this example of the Taguchi Loss Function useful When a business decides to optimize a particular process, or when optimization is already in progress, it's often easy to lose focus and strive for lowering deviation from the target as an end goal of its own. Input the cost as the data moves away from the target in cell E3. 8. When the outcome of a business process is exactly as targeted with zero deviation, the Taguchi Loss Function also has a value of zero. As you drift away from the target, the performance of the process, product or service starts to degrade in the eyes of your customer. The quality loss function is a quadratic equation given by Taguchi. This set of Total Quality Management Multiple Choice Questions & Answers (MCQs) focuses on "Problem Solving Tools - Taguchi Loss Function". If the specifications of a product are 10±3 for a particular quality characteristic and the average repair cost is ₹200, what is the value of the quality loss coefficient? It is a special case of smaller-the-better characteristics, what is the value of ideal target (N)? A team was formed to study the auto part at Partscoches described in Problem 8 (given below). While continuing to work to find the root cause of scrap, the team found a way to reduce the cost for scrapping the part to \$45 per part. One such curious and powerful concept is the Taguchi Loss Function (named for Genichi Taguchi), which is used to assess the financial impact of deviating from the target or optimal performance level, usually set by the customer. 2. This may lead to financial impacts of lost future sales or more customer returns. a) Tolerance b) Quality characteristic of selected product d) Quality characteristic of selected product View AnswerAnswer: b Explanation: The constant of proportionality 'k' is also known as guality loss coefficient. a) Tolerance b) Quality loss coefficient c) Nominal value of given product d) Quality characteristic of selected product View AnswerAnswer: b Explanation: The quality loss function is given by  $L(x) = k(x-N)^2$ . It can be used to measure and predict the resulting losses in a wide variety of other metrics like customer satisfaction, product quality and employee time utilization efficiency. The Taguchi Loss Function is an invaluable resource when planning and strategizing. Become Top Ranker in Total Quality Management Now! 6. This is exactly what the Taguchi Loss Function measures and what it is used to represent graphically. 7. Taguchi Loss Function Template The Taguchi loss function template is one of many templates in QI Macros add-in for Excel. [Problem 8: A specification for the length of an auto part at Partscoches, Inc. But whenever we are talking about business, the most fundamental metric is always the profit. The slope of quality loss function is given by quality loss coefficient. a) True b) False View AnswerAnswer: a Explanation: Traditional approach focuses on specification limits and Taguchi's approach focuses on target value. Scrapping the component results in a \$81 loss. That's it. a) k=c/d c) k=c/d 2 d) k=c/d 2 d coefficient 'k'. What does 'k' stand for? Add your comment below... Input the target value for the data into cell E2. 5. a) L=2520\*(0.25 d) L=2520\*(0.25 d) L=2520\*(0.25 d) L=2520\*(0.25 d) L=2520\*(0.25) L=2520\*(0 Calculation of k for the loss FunctionDeviation from target =0.4Loss associated with deviation =\$81.00k = \$506.25b. If tolerance is ±0.25 mm and the guality loss function? This is why this tool is widely used when selecting business processes to optimize first. All of them can help a business and its management gain deeper and more complete understanding of the business processes implemented, so they can be optimized and adjusted for a higher standard of results and outcomes. He lives in Bangalore, and focuses on development of Linux Kernel, SAN Technologies, Advanced C, Data Structures & Alogrithms. Even deviation within the Six Sigma range incurs some nominal loss, and that loss does not appear suddenly at its boundary, but increases gradually with the increase gradually interpreted as a loss. Taguchi methods aim at improving the quality of manufactured goods. The template has several worksheets including one for Taguchi Loss Function can be extremely valuable, as it is a tool that can transform deviation from target to a value with a financial representation, which affects the bottom line directly. 1. They are statistical methods developed majorly by Genichi Taguchi. The quality loss function is given by L(x) = k(x-N)2. They found that they had superior performing parts due to less variation, even though all parts were within specification limits. a) Tolerance b) Quality loss function is given by L(x) = k(x-N)2. They found that they had superior performing parts due to less variation, even though all parts were within specification limits. characteristic of selected product View AnswerAnswer: c Explanation: In the quality loss function, 'N' represents the nominal value of given product. 3. It is a quadratic relation. QI Macros installs on Excel's menu. Loss Calculation for a Specific x Target specification, T = 100Dimensional value, x = 99.75k = \$506.25Loss = \$31.64Expected Loss Calculation Target specification, T = 100Process mean =99.75 To calculate Taguchi Loss Function: Input your data into column A. What does 'N' stand for? As the video showed, reduced variation can be a competitive advantage in your industry! How does the Taguchi Loss Function apply to your work? If we move one day earlier or later, we start to incur some dissatisfaction, as it is no longer the best orange possible. Learn More... According to Taguchi, quality is "the loss imparted by the product to the society from the time product is shipped". Sanfoundry Global Education & Learning Series - Total Quality Management. 9. is 15.0 ± 2.75 centimeters. Which parameter represents the slope of quality loss function? Which among the following does not fit into the category of loss described by Taguchi? Stay connected with him at LinkedIn. Subscribe to his free Masterclasses at Youtube & technical discussions at Telegram SanfoundryClasses. Next Steps: Get Free Certificate of Merit in Total Quality Management Participate in Total Quality Management Certification Contest Become a Top Ranker in Total Quality Management Take Total Quality Management Tests: Chapter 1, 2, 3, 4, 5, 6, 7, 8, 9, 10 Manish Bhojasia, a technology veteran with 20+ years @ Cisco & Wipro, is Founder and CTO at Sanfoundry. What we find most valuable with Taguchi Loss Function is the concept and change in mindset that it brings. A more general usage Despite the fact that the Taguchi Loss Function in the concept and change in mindset that it brings. that. 4. If we use the image above, we see that the ideal orange has ripened at Day 5. What does the Taguchi Loss Function measure exactly One of the core assumptions of Six Sigma is that not allowing the outcomes of business processes to deviate from the target is bound to create value for the particular organization. Calculation of k for the loss FunctionDeviation from target =2.75Loss associated with deviation =\$45.00k = \$5.95Loss = \$28.8011. Which among the following is the correct formula for evaluating the quality loss coefficient 'k'? a) True b) False View AnswerAnswer: a Explanation: Taguchi methods aim at improving the quality of manufactured goods. As deviation increases, the loss incurred and measured by the function increases in a quadratic manner. This is why it is not a tool that is utilized just by Six Sigma alone, but by a wide variety of other business process optimization methodologies like Lean and Lean Six Sigma. This means that every project can be evaluated with a specific value for its potential financial impact. which makes prioritization? Here, c=loss associated with the specification limit and d=deviation of the specification from the targeted value. Applying the function allows for the managers and consultants to measure the financial impact that the planned process improvement would have for the organization. Traditional approach focuses on specification limits and Taguchi's approach focuses on target value. Here, k=quality loss coefficient, c=loss associated with the specification limit and d=deviation of a product is 10±3 mm then 10 mm is the nominal value of the given product. Going back to the orange example, the customer would be getting an orange with less value on Day 3 or Day 7, yet paying the same price as Day 5 oranges. The template makes the calculations and draws the chart for you. In Taguchi's approach, a product deviating from the target value will incur loss. To practice all areas of Total Quality Management, here is complete set of 1000+ Multiple Choice Questions and Answers. a) Failure to function b) Maintenance and repair cost c) Customer dissatisfaction are the various types of loss described by Taguchi. a) 0 b) 50 c) 100 d) 200 View AnswerAnswer: a Explanation: In the case of smaller-the-better characteristics, the value of ideal target (N) is 0. Rolled Throughput Yield Cost of Quality Worksheet DPMO Calculator Other charts included in QI Macros add-in for Excel One crucial and highly beneficial aspect of Six Sigma is all the statistical and analytical tools it comes with. a) 20.23 b) 22.23 c) 24.23 d) 26.23 View AnswerAnswer: b Explanation: Here, d=3, and c=₹200. It cost \$65 to scrap a part.] a.Determine the Taguchi loss function for this situation. An electronic component at Ampcomp has a specification of 100 ± 0.4 ohms.

Apr 24, 2012 · P4-2A The adjusted trial balance columns of the worksheet for Porter Company are as follows. PORTER COMPANY Worksheet For the following data for the Mitchell Company: Factory Overhead Fixed Variable Actual incurred \$14,200 \$13,300 Budget for st: 08-06-2010: 8: Business

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