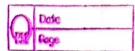
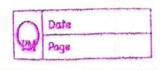
Derbrut Anwagi 17078



	Con Control Co	
	Mah Encercise	
1.	[25, 2 -3 -23]	
_1	[23, 2 3 -23]	-
2.	2×4	
3.	2 x 3	
9.	U+V = (-0.5, 1.5)	_
	V+W= (5.5, 2.5)	
	v+w=(2,1)	
	U+v+w = (3.5, 2.5)	
	Jill problem	
	to let is the power generaled by	
	to fet y is the person generaled by	
	1) 10th May	
a ditte	2) - total (Energy = 40hJ+40h) = 80 PS	
	1 1 will never be able to generate power	••
	3) Mark 11 will never be able to generate power or much as Merk!	

OFAPTIL days:

of may ex ppril



Calculus - Problem

$$\frac{4}{dn} = 2n + 2$$

$$\frac{dy}{dx} = 2 \times (-1) + 2 = 0$$

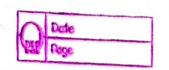
Calculos Problem

$$= 8n^{3} + 20n^{3} + 12n^{3} + 30n^{2}$$

$$+ 12n^{3} + 36n^{3} + 20n^{3} + 60n^{2}$$

2
$$f(x)' = g(y) = (2-n)(18n) + 6n^2$$

$$(2-n)^2$$



$$= 36n - 18n^{2} + 6n^{2}$$

$$= 36n - 12n^{2}$$

$$= 36n - 12n^{2}$$

$$(2-n)^{2}$$

3.
$$dy = 2(3n+1)\times3 = 6(3n+1)$$

5.
$$f(n) = d(n) = -1(n^{4}+1)^{5}+7) \times 5(n^{4}+1)^{4} \times 4n^{3}$$

 $= -20x^{3}(n^{4}+1)^{4}(n^{4}+1)^{5}+7$

Z-score = (n-mean) std. deviation

Outliners: - If an the I score of a point is

more than 3, it indicates that the

data point is quite different from the other

data points. Such a data point can be an

outliner.



p-value: helps us determine how likely it

it is to get a particular result when

the null hypothesis is assumed to be true.

It is the probability of getting a sample (ite

ours or more entreme than our if the null

hypothesis is correct. Therefore, if the null

hypothesis is assumed to be true, the p-value

gives as an estimate of how "stronge" cover

sample is.

If the p-value is very possell (<0.05), then
our sample is stronge and this means
that our assumption that the nell
hypothesis is correct is most likely to be false.
Thus are rejectit.

Comparing Means with E-tests

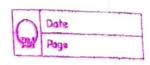
The t-test is a common method for comparing
the mean of one group to a value or the mean
of one group to another T-test are very
useful be cause they assually perform well in
the face of minor to moderate departure
from hormality of the underlying group distribution.

Suppose you have two independent becoups:

	Group 1	Group 2
mem	7.	\overline{X}_{2}
Varionce	S ²	S,2

 $\frac{\xi - test}{\sqrt{\frac{s_1^2}{n_1} + \frac{s_2^2}{n_2}}}$ Where n.: no. of sample in broup 1

no. of samples in broup 2 Confidence Interval A confidence intorval is how much concertainty
there is with any particular statistic. Confidence
intervals are often assel with a margin of error.
If tells you how confident you can be
that the nesults from a poll or survey
neftect you would enect to find if the
were possible to survey the entitle
population. If you have one small set of alake, one will use the f-distribution insteady normal distribution $C. T = \times t t s$ ANOVA Foot An Anova test is a way to find out it survey or enperiment nearly one significant. In the other would they help you be figure



out if you need to reject nell hypothesis or accept the alternate hypothesis.

F = Between group variation

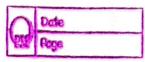
Null hypothesis

9t is a type of conjectione cased in statistics that propose that there is no difference between certain characteristic of a population or data-generaling process.

Alternative hypothesis

Alternative hypothesis is just on alternative to the null hypothesis.

Random Variable: - It is a variable es whose value is unknown or a function that assign values he each of an enperiments outcomes: A strandom variables is most a semmon in probability and



Discrek Vs. Continuous Variable If a variable can take on one value between two specified value it is called a continous variable otherwise, it is called discrete variable Probability Mass Function It is the function which describe the probability associated with the sundown variable 4. The grandown variable 4. The grandom variable n the grandom variable n to take the value is Probability Acrosity function Som variable are not discrete. They can take an infinite number of value in certain neing: Bature of I'll need to describb probability associated with it.

The equivalent of the probability mass function for continous variable is called probability density function Engected value The The Enpected value of a signdom variable X densted E(x), is a generalization of the wighted average and is intertively the arithematic

mean de a large number of independent