

Quiz# 4

Name:

ID #:

Section #:

Serial #:

Q1. (4 points)

Use differentials to approximate $e^{0.03}$.

Q2. (6 points)

An isosceles triangle has equal sides 6 inches long. If the angle θ between the equal sides is changing at a rate of 2 degrees/minute, how fast is the area of the triangle changing when $\theta = 60^\circ$.

With My Best Wishes

KFUPM
Mathematics & Statistics

Term 071
MATH 101

Date: 5/12/2007
Duration: 15 minutes

Quiz# 4

Name:

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Q1. (4 points)

Use a proper linear approximation to estimate $\tan(0.2)$.

Q2. (6 points)

An isosceles triangle has equal sides 6 inches long. If the angle θ between the equal sides is changing at a rate of 3 degrees/minute, how fast is the area of the triangle changing when $\theta = 30^\circ$.

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