

Q2. (5 points) Use <u>differentials</u> to approximate  $e^{0.03}$ .

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

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