KF

Math 101 (082)
Quiz 2 v2 (2-8 – 3.8)

Name: ID #: Section #: Serial #:

1. The limit $\lim_{h\to 0}\dfrac{\cos(\pi+h)+1}{h}$ represents the derivative of some function f at some number a. State such an f and a.
2. Find dy/dx if $\ln y + x\cos y = 1$
3. Find an equation of the tangent line to the curve $y = x+\sqrt{x}$ at the point $(4,6)$.

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Math 101 (082)
Quiz 2 v1 (2-8 – 3.8)

Name: ID #: Section #: Serial #:

1. The limit $\lim_{h\to 0}\dfrac{\sqrt{4+h}-2}{h}$ represents the derivative of some function f at some number a. State such an f and a.
2. Find dy/dx if $x^3 y + x\cos y = x$
3. Find an equation of the tangent line to the curve $y = x + \ln x$ at the point $(1,1)$.