Name:	Exercise Type:
J#:	**Quiz**
Date: **2017 June 20**	

Standard: This student is able to...	Mark:
C04: VectFuncSTNB. Compute and apply the arclength parameter and TNB frame for a vector function.	
4/4 ⋆ reattempt due on:	

Sketch the curve parameterized by $\mathbf{r}(t) = \langle 4 + 2\cos(t), -1 + 2\sin(t)\rangle$. Compute $\mathbf{T}$ and $\mathbf{N}$ at the point $\langle 4, 1\rangle$ where $t = \pi/2$, and add them to your sketch at that point.

MA 227-103 — Summer 2017 — Dr. Clontz

Name:	Exercise Type:
J#:	**Quiz**
Date: **2017 June 20**	

Standard: This student is able to... **S05: MulivarFunc.** Sketch and analyze the domain, level curves, and graph of a two-variable real-valued function. 3/3 ⋆ reattempt due on:	Mark:

Sketch the domain of $g(x,y)=\sqrt{xy}$. Then plot the four level curves where $k=0,1,2,3$.

Name:	Exercise Type:
J#:	**Quiz**
Date: **2017 June 20**	

Standard: This student is able to... **C05: MulivarCalc.** Compute and apply the partial derivatives, gradient, and directional derivatives of a multivariable real-valued function. 2/4 ⋆ reattempt due on:	Mark:

Find the maximal value of the directional derivative for the function $f(x,y) = xe^y + y$ at the point $\langle 1, \ln 3 \rangle$, and the direction that yields this value.