Name:	Exercise Type:
J#:	**Quiz**
Date: **2017 June 16**	

Standard: This student is able to...	Mark:
C04: VectFuncSTNB. Compute and apply the arclength parameter and TNB frame for a vector function.	
2/4 ⋆ reattempt due on:	

Consider the curve parametrized by $\mathbf{r}(t) = \langle 2t, \ln(\sec(2t))\rangle$ for $-\frac{\pi}{4} \leq t \leq \frac{\pi}{4}$. It follows that $\frac{d\mathbf{r}}{dt} = \langle 2, 2\tan(2t)\rangle$ and $\frac{d\mathbf{T}}{dt} = \langle -2\sin(2t), 2\cos(2t)\rangle$. Compute the normal vector and curvature at the point on this curve where $t = \frac{\pi}{8}$.

Name:	Exercise Type:
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Standard: This student is able to...	Mark:
S05: MulivarFunc. Sketch and analyze the domain, level curves, and graph of a two-variable real-valued function.	
1/3 ⋆ reattempt due on:	

Sketch the three level curves for the function $f(x,y)=x-y^2$ that pass through the points $\langle 3,2\rangle$, $\langle 1,-1\rangle$, and $\langle 2,1\rangle$.