

Name:	Exercise Type: Quiz
J#:	
Date: 2017 June 13	

Standard: This student is able to...	Mark:
C02: VectFunc. Model curves in Euclidean space with vector functions.	
4/4	★ reattempt due on:

Give a vector function parameterizing the circle with center $\langle 1, 2 \rangle$ and passing through the point $\langle -2, 6 \rangle$.

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C03: VectCalc. Compute and apply vector function limits, derivatives, and integrals.	
3/4	★ reattempt due on:

Find $\int \mathbf{r}(t) \, dt$ where $\mathbf{r}(t) = \langle \cos(t), 6t^2, e^t \rangle$.

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S04: Kinematics. Compute and apply position, velocity, and acceleration vector functions.	
1/3	★ reattempt due on:

Recall that position in ideal projectile motion is given by $\mathbf{r}(t) = P_0 + \mathbf{v}_0 t - \frac{1}{2}g\hat{j}t^2$ where P_0 is the initial position, \mathbf{v}_0 is initial velocity, and g is acceleration due to gravity.

Assume $g = 10$ meters per second squared. Find the speed of a projectile after 3 seconds if it is launched from the ground with initial speed $20\sqrt{3}$ meters per second at an angle of $\pi/3$ radians.