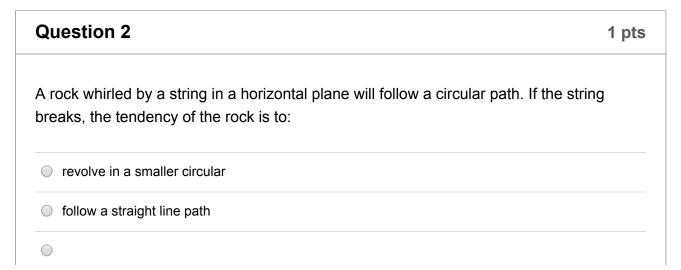
Centripetal Force Review - Gen Ed

(1) This is a preview of the draft version of the quiz

Started: Jan 15 at 3:29pm

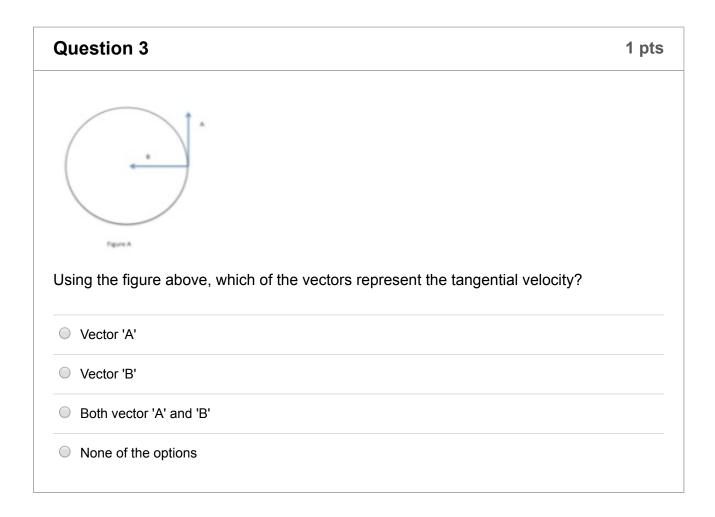
Quiz Instructions

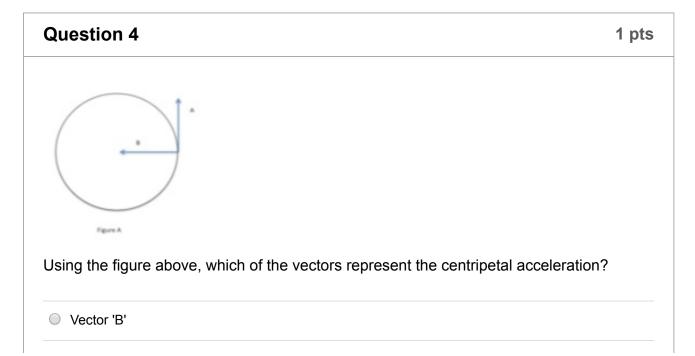
Question 1	1 pts
A ball is shot into a center of a spiral tube that is lying on a table (neglect gravity) path will it follow when it emerges?	. Which
○ B	
○ C	
○ A	



increase its speed

continue to follow a circular path





Vector A	\bigcirc	Vector	'A'
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None of the options

Both vector 'A' and 'B'

Question 5	1 pts
The figure above, a group of people are holding hand and running in a circle. We one of the people has the fastest speed?	hich
O Person 'B'	
Person 'C'	
O Person 'A'	
O Person 'D'	

Question 6	1 pts
A convertible car with its top down is traveling at a constant speed around a cirula	ır track
(as shown in the diagram below. When the car is at point 'A' a passenger throws a	a ball
straight up. The ball would most likely land at which point?	

i.

Car P
O Point 'B'
O Point 'A'
O Point 'D'
O Point 'C'

Question 7 1 p	ots
Some students are riding a merry-go-round that is spinning around at a constant speed	
The merry-go-round suddenly stops, and the students fall off. What direction would the students go?	
 the students would go in a straight line 	
the students would go in a circular direction	
the students would go toward the center	

Question 8

1 pts

Some students are riding a merry-go-round that is spinning around at a constant speed.
What direction is the centripetal acceleration?
perpendicular to the center of the merry-go-round
toward the center of the merry-go-round
away from the center of the merry-go-round

Question 9	1 pts
Centripetal force is a net force.	
O True	
• False	

Question 10	1 pts
A ball is tied to a string and whirled in constant uniform motion in a horizontal circle the mass of the ball suddenly doubles, what must happen to centripetal force (aka tension) assuming all else remains the same?). If
it is half as much	
 it doubles 	

○ it quadruples

it stays the same

Question 11	1 pts
If the mass, velocity, and radius of an object in uniform circular motion tripled, what happen to the centripetal force required to keep the object in uniform circular motion the centripetal force required to keep the object in uniform circular motion the centripetal force required to keep the object in uniform circular motion the centripetal force required to keep the object in uniform circular motion the centripetal force required to keep the object in uniform circular motion the centripetal force required to keep the object in uniform circular motion the centripetal force required to keep the object in uniform circular motion the centripetal force required to keep the object in uniform circular motion the centripetal force required to keep the object in uniform circular motion the centripetal force required to keep the object in uniform circular motion the centripetal force required to keep the object in uniform circular motion the centripetal force required to keep the object in uniform circular motion the centripetal force required to keep the object in uniform circular motion the centripetal force required to keep the object in uniform circular motion the centripetal force required to keep the object in uniform circular motion the centripetal force required to keep the object in uniform circular motion the centripetal force required to keep the object in uniform circular motion the centripetal force required to keep the object in uniform circular motion the centripetal force required to keep the object in uniform circular motion the centripetal force required to keep the object in uniform circular motion the centripetal force required to keep the object in uniform circular motion the centripetal force required to keep the centripetal for	
o change	
○ x9	
○ x(1/3)	
○ x3	
○ X(1/9)	

Question 12	1 pts
A ball is tied to a string and whirled in constant uniform motion in a horizontal cir the length of the string suddenly increases, what happens to centripetal accelera Assume the velocity remains the same.	
impossible to know	
decreases	
increases	
 stays the same 	

Question 13

1 pts

Tripling the velocity of an object in uniform circular motion leads to a increase in centripetal acceleration.	
• x2	
◎ x27	
○ x9	
● x3	

Question 14	1 pts
Frequency is the number of revolutions per unit time and can be measured in Hert	Z.
True	
False	

Question 15	1 pts
The reciprocal of the period is the frequency.	
True	
False	

Not saved	Submit Quiz