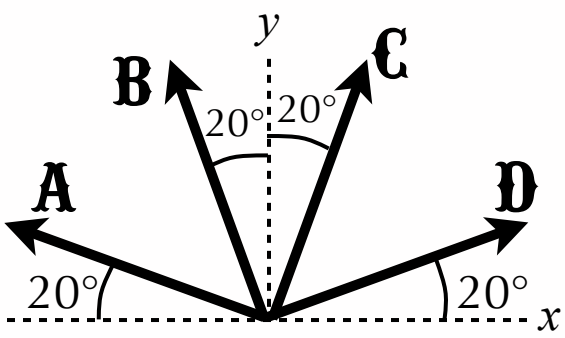
Quiz #2

1. A ball is thrown into the air. When it reaches the top of its flight, its acceleration

A) points upward B) points downward C) is zero

2. If $\vec{A} = -3\hat{x} + 4\hat{y}$, what is the *x*-component A_x?

A) 3 B) -3 C) $-3\hat{x}$ D) 25



3. Which of the vectors on the right is

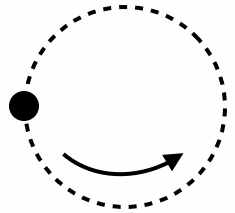
$$-2\cos 20°\,\hat{x} + 2\sin 20°\,\hat{y}\,?$$

4. If +x points to the right, the acceleration a_x in the motion diagram is

A) positive B) zero C) negative

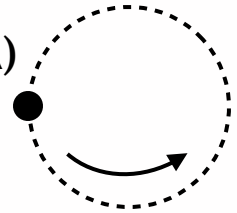
5. This object is moving counterclockwise in a circle with constant speed. The acceleration at this moment points

A) ↑ B) → C) ↓ D) ←

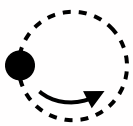


6. If both of these balls are moving at the same speed, which feels the larger acceleration?

A)



B)



C) Both feel the same acceleration

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BBAABB

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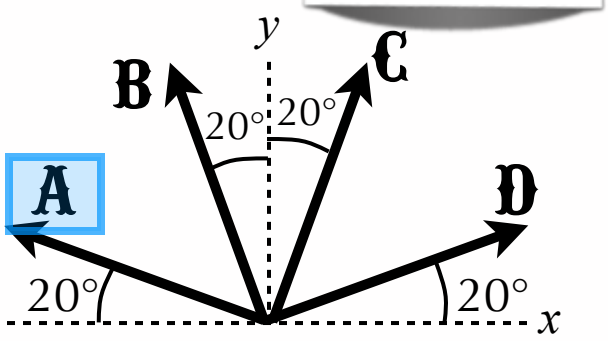

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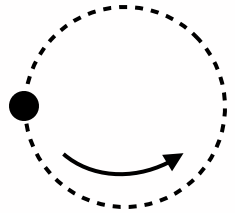

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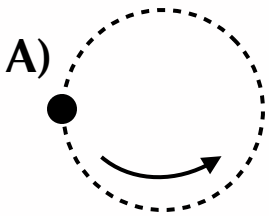

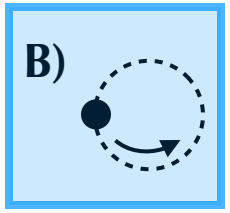

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