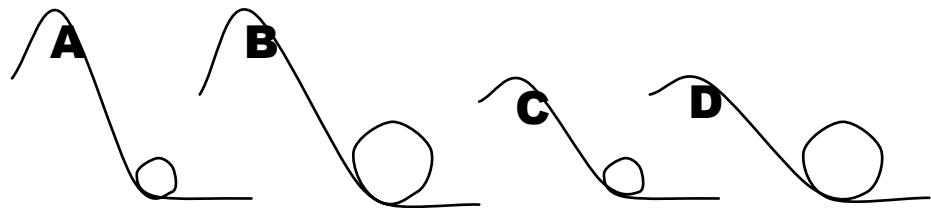


Wk 20 Circular Motion

3. Centripetal Accel

1. Assuming riders go through fast enough not to fall out at the top, where is the greatest danger of neck/spinal injury or blacking out?
- ☐ top of a loop   ☐ bottom of a loop   ☐ sides of a loop   ☐ it's all the same



2. Four coasters are shown above. Which coaster has...

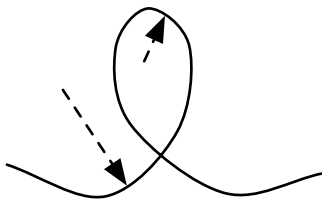
LEAST centrip acceleration? ☐ A ☐ B ☐ C ☐ D

LEAST possibility of hurting riders? ☐ A ☐ B ☐ C ☐ D

GREATEST centrip acceleration? ☐ A ☐ B ☐ C ☐ D

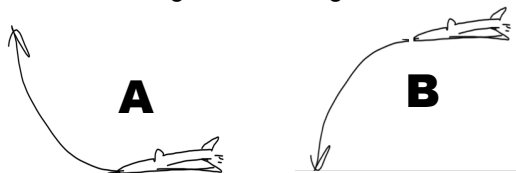
GREATEST possibility of hurting riders? ☐ A ☐ B ☐ C ☐ D

3. The first coasters had circular loops. Now they have a teardrop shape. Why is it ok to have a tight loop at the top?



4. Which pilot is more in danger of blacking out?

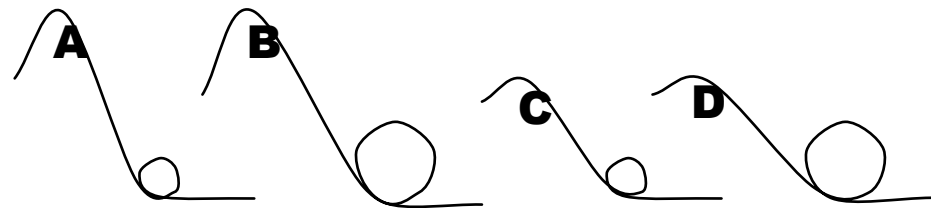
☐ A ☐ B



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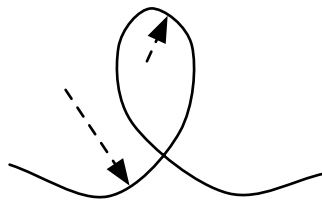
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