

## 2019 AP<sup>®</sup> BIOLOGY FREE-RESPONSE QUESTIONS

3. The pyruvate dehydrogenase complex (PDC) catalyzes the conversion of pyruvate to acetyl-CoA, a substrate for the Krebs (citric acid) cycle. The rate of pyruvate conversion is greatly reduced in individuals with PDC deficiency, a rare disorder.
- (a) **Identify** the cellular location where PDC is most active.
  - (b) **Make a claim** about how PDC deficiency affects the amount of NADH produced by glycolysis AND the amount of NADH produced by the Krebs (citric acid) cycle in a cell. **Provide reasoning** to support your claims based on the position of the PDC-catalyzed reaction in the sequence of the cellular respiration pathway.
  - (c) PDC deficiency is caused by mutations in the *PDHA1* gene, which is located on the X chromosome. A male with PDC deficiency and a homozygous female with no family history of PDC deficiency have a male offspring. **Calculate** the probability that the male offspring will have PDC deficiency.

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web the process of a computer generating a series of images fast enough to allow for interaction is referred to as real time rendering the goal with real time rendering is to match the monitor refresh rate to make visuals butter smooth so we re talking 60 hz 60 fps frames per second for games and vr

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web aug 4 2023 in short real time rendering is the process of creating and displaying 3d images in real time this means that images are created and shown instantly rather

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the graphics rendering pipeline rendering pipeline or simply pipeline is the foundation of real time graphics its main function is to render a two dimensional image in relation to a virtual camera three dimensional objects an object that has width length and depth light sources lighting models textures and more the architecture of the real time rendering pipeline can be divided into conceptual stages appli

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