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## **Create a set of multiple choice questions about the details of the Canny edge detection algorithm for a undergrad course in computer vision and include the solutions.**

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1. Canny edge detection is best suited for:

- A. Lightening the contrast of an image
- B. Sharpening the edges of an image
- C. Detecting edges in an image
- D. Morphologically transforming an image

Answer: C. Detecting edges in an image

2. What factor influences the success of Canny edge detection?

- A. The lighting of the image
- B. The size of the Gaussian kernel
- C. The variance of the kernel
- D. The brightness of the image

Answer: B. The size of the Gaussian kernel

3. What is the ratio between low and high thresholds used by the Canny edge detection algorithm?

- A. 10:1
- B. 1:2
- C. 2:1
- D. 1:10

Answer: C. 2:1