

Two PROFESSIONAL HAMSTER DIVERS dove into a pool of water from a initial height of five feet. Their paths are model by the following functions where x is seconds and $f(x)$ and $g(x)$ are vertical feet. The X-axis represent the water level.

$$f(x) = 2x^2 - 8x + 5$$

$$g(x) = x^2 - 7x + 5$$



Eeeeeeeeeee
eeeeee!!!!!!!



¡Soy un profesional!

...that said, answer the following below.

- Which hamster ENTERED the water first? Support your conclusion mathematically.
- Which hamster EMERGED from the water LAST? Support your conclusion mathematically.
- Which hamster was underwater the longest? Support your conclusion mathematically.