UNIQUE never told us he was trying out for the Olympics but here are the facts: As a diver he is planning on bringing home the gold!!!

This function represents Unique's path as he dives: $U = -5t^2 + 10t + 3$
(BTW: t represents time in seconds (so think about how long a diver is in here to be sure your answers MAKE SENSE!!!) and U represents Unique's height)

QUESTIONS FROM START TO FINISH: <u>Work and/or explanation required!!</u>

- How high is the platform that Unique is leaping from?
- WHEN does Unique hit the water?
- As he leaps up AND out, at what time does Unique hit the exact same height as his original starting height (the height of the platform)?
- WHEN does Unique reach his peak? What is the height of that peak?