



3. A dog can run at a rate of 18 ft/s on the shore, but only swims at a rate of 6 ft/s. The dog is currently standing 40 feet from the shore, which runs directly north and south. If a frisbee is thrown so that it lands 30 feet out into the water and 50 feet north of the dog's starting location, where should the dog enter the water to minimize his time to get to the frisbee?