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Quadratic Equation Word Problems

1. A flare is launched from a boat. The height, h , in metres, of the flare above the water is approximately modelled by the function $h(t) = -15t^2 + 150t$, where t is the number of seconds after the flare is launched. How many seconds will it take for the flare to return to the water?
2. An osprey, a fish-eating bird of prey, dives towards the water to a salmon. The height, h , in metres, of the osprey above the water t seconds after it begins its dive can be approximated by the function $h(t) = 5t^2 - 30t + 45$. Determine the time it takes for the osprey to reach a height of 20 m.
3. Ted popped a baseball straight up with an initial approach velocity of 48 ft/s. The height, h , in feet, of the ball above the ground is modelled by the function $h(t) = -16t^2 + 48t + 3$. How long was the ball in the air if the catcher catches the ball three feet above the ground? Is your answer reasonable in this situation? Explain.
4. Angela opened a surf shop in Tofino, British Columbia. Her accountant models her profit, P , in dollars with the function $P(t) = 1125(t-1)^2 - 10,125$, where t is the number of years of operation. Determine how long it will take for the shop to start making a profit.

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