1. A baseball is thrown into the air and its height ( $h$ ), in feet, can be modeled by the equation $h=-7 t^{2}+34 t+5$, where $t$ represents time in seconds.

How many seconds will it take for the baseball to hit the ground $(h=0)$ after it is thrown into the air?

Answer $\qquad$
2. Suppose a football player kicks a ball and the height ( $h$ ) of the football in feet can be modeled by the equation $h=-8 t^{2}+v t+c$, where $t$ is the time in seconds after the ball is kicked, $v$ is the initial upward velocity, and $c$ is the starting height.

Write an equation that can be used to find the height ( $h$ ) of the ball after $t$ seconds if the initial upward velocity is $15 \mathrm{ft} / \mathrm{sec}$ and the starting height is 2 ft .

Answer $\qquad$

If the ball is not touched, how long will it take for the ball to reach the ground?

Answer $\qquad$

