4. [7 points] Dog owner Malik recently bought an Extra-High-Flying Ball ${ }^{\mathrm{TM}}$ at the Math-tas-tíque Dog Boutique for his extra-high-jumping Jack Rusell Terrier.

On one particular throw, the ball's height, in feet, is given by:

$$
h(t)=-16\left(t+\frac{1}{8}\right)(t-3),
$$

where $t$ is the number of seconds after the ball left Malik's hand.
a. [2 points] At what height was the ball when it was released Malik's hand? Show all work. Give your final answer in decimal form, NOT exact form.
height: $\qquad$ feet
b. [3 points] What is the maximum height the ball reached and at what time did it reach that height?
Show all work. Give your final answer in decimal form, NOT exact form.
height: $\qquad$ feet
time: $\qquad$ seconds
c. [2 points] Assuming the ball wasn't caught on its way down, how many seconds, total, was the ball in the air?
$\qquad$ seconds

