## Quadratic Application: (Factoring)

The Demon Drop at Cedar Point in Ohio takes riders to the top of a tower and drops them 60 feet. A function that approximates this ride is $h=-16 t^{2}+64 t+60$, where $h$ is the height in feet and $t$ is the time in seconds. About how man ers to drop 60 feet?


The percent of U.S. households with high speed Internet $h$ can be estimated by
$h=-0.2 n^{2}+7.2 n+1.5$, where $n$ is the number of years since 1990. Use the Quadratic Formula to determine when $20 \%$ of the population will have high speed Internet.


At a swim meet, Janet dives from a diving board that is 48 feet high. Her position above the water is represented by the equation $h(t)=-16 t^{2}+$ $24 t+40$, where $t$ represents time in seconds and $h(t)$ represents height in feet.

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