- **6.** [9 points] Let V(t) be the total number of tickets for a concert that have been sold (in thousands) t minutes after 8 pm.
  - a. [2 points] There are only 2 million tickets for the concert on sale. Let U(t) be the number of unsold tickets at t minutes after 8 pm. Find a formula for U(t).

U(t) =

**b.** [2 points] Let E(m) be the total number of tickets for the concert that have been sold (in thousands) m minutes **after 11 pm**. Find a formula for E(m).

E(m) =

c. [2 points] Let H(p) be the total number of tickets for the concert that have been sold (in hundreds) p hours after 8 pm. Find a formula for H(p).

H(p) =

**d.** [3 points] Write an equation that represents the following fact: "M minutes after 8 pm, the number of tickets sold was equal to a third of the tickets sold by 9 pm".

Equation: