

A large file begins downloading with dial-up internet. The amount of the file (measured in *megabytes*) remaining to be downloaded is a function of time t measured in *hours*, given by $F(t) = 59.99 - 15.75t$, for $t \geq 0$.

(a) What is the initial size of the file?

(b) Solve for the time it takes to download the file.
(Put in the exact form xx hrs, yy min, zz sec.)

(c) Graph the function. Label the axes by name, symbol, and unit. Also label the points determined in Parts (a) and (b). State the domain and range.

(d) Solve for *times* for which the remaining file size is less than 25.34 MB.