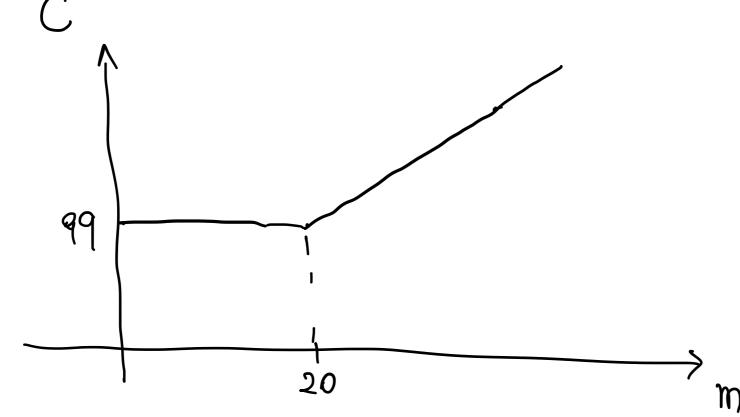
Example:

A data plan from a telephone company charges 99 cents per day for data usage up to 20Mb and 7 cents for each additional Mb or part of a Mb.

(a) Write down a formula for the daily lost, C, of the data plan as a fudion of the number of Mb used, m.

(a)
$$C = f(m) = \begin{cases} 99 \\ 99 + 7(m-20) \end{cases}$$
, for $0 \le m \le 20$
 $99 + 7(m-20)$, for $m > 20$ (Also okay to write $20 < m < \infty$)



domain: $0 \le m < \infty$ range: $99 \le C < \infty$

Note: Absolute value of
$$x$$
 $f(x) = |x| = \begin{cases} -x & \text{for } x < 0 \\ x & \text{for } x \geq 0 \end{cases}$

