## Quiz 1.1 - Average Rate of Change

1. (1 pt) alfredLibrary/AUCV/chapter1/lesson1/quiz/questionisp Suppose that the graph of the function $y=f(x)$ passes through the points $(-2,9)$ and $(-1,4)$. On the interval $[-2,-1]$.
the net change in $x$ is $\Delta x=$ $\qquad$
the net change in $y$ is $\Delta y=$ $\qquad$ and
the average rate of change in $y$ is $\Delta y / \Delta x=$

2 (1 pt) affredLibrary/AUCV/chapter1/hesson1/quiz/question5.pt Let $S(t)$ be the amount of sales in dollars by a small business during the $t$-th week after January 1. Suppose sales on January

1 were 9666 dollars and sales 6 weeks later were 5496 dollars. Compute the following ower the time interval $[0,6]$. Enter the units by typing the full words or phrases (e.g., feet per second).
(a) $\Delta t=$ $\qquad$ Units? $\qquad$
(b) $\Delta S=$ $\qquad$ Units? $\qquad$
(c) $\Delta S / \Delta t=$ $\qquad$ Units? $\qquad$
(d) Use the average rate of change in part (c) to estimate the sales during the 4 th week after January 1 . That is, estimate $S(4)$.
$S(4) \approx$ $\qquad$ Units? $\qquad$

