Definition 1. Let the function S be defined as $S(t) = -\sqrt{t+6} + 2$ with a domain of $[-6, \infty)$.

Exercise 1 The least value attained by S is 2.

Multiple Choice:

- (a) True
- (b) False ✓

Exercise 2 The greatest value attained by S is 2.

Multiple Choice:

- (a) True ✓
- (b) False

Exercise 3 Is S is an increasing function, decreasing function, or neither?

Multiple Choice:

- (a) Increasing
- (b) Decreasing ✓
- (c) Neither

Definition 2. Let N be some real number. Let M be some real number. Let the function H be defined as $H(t) = M + \sqrt{t+N}$ with a domain of $[-N, \infty)$.

Exercise 4 The least value attained by H is M.

Multiple Choice:

- (a) True ✓
- (b) False

Exercise 5	The greatest value attained by H is M .
Multiple Ch	oice:
(a) True	
(b) False ✓	
Exercise 6	The range of H is which interval?
Multiple Ch	
(a) (M, ∞)	
(b) $[M, \infty)$	\checkmark
(c) $(-\infty, -\infty)$	$\cdot M]$
(d) $(-\infty, \Lambda)$	II[
Exercise 7	H is an increasing function.
Multiple Ch	oice:
(a) True ✓	
(b) False	