

Exercise 91

The function $A(d)$ gives the pain level on a scale of 0 to 10 experienced by a patient with d milligrams of a pain-reducing drug in her system. The milligrams of the drug in the patient's system after t minutes is modeled by $m(t)$. Which of the following would you do in order to determine when the patient will be at a pain level of 4?

- (a) Evaluate $A(m(4))$.
- (b) Evaluate $m(A(4))$.
- (c) Solve $A(m(t)) = 4$.
- (d) Solve $m(A(d)) = 4$.

Solution

To determine when the patient has a pain level of 4, you would solve $A(m(t)) = 4$ for t , so the answer is (c).