

Name: _____

Date: _____

Problem-Based Task: Medication Levels in the Bloodstream

When Andy receives a dose of prescription medication, the function

$f(x) = \frac{10x}{x^2 + 1}$ describes the concentration of the medication in his

bloodstream over time. $f(x)$ represents the concentration of the medication

in milligrams per deciliter (mg/dL) and x represents the time in hours since

the last dose. What graph represents the concentration of medication in

Andy's bloodstream, and when will the medication completely leave his system?

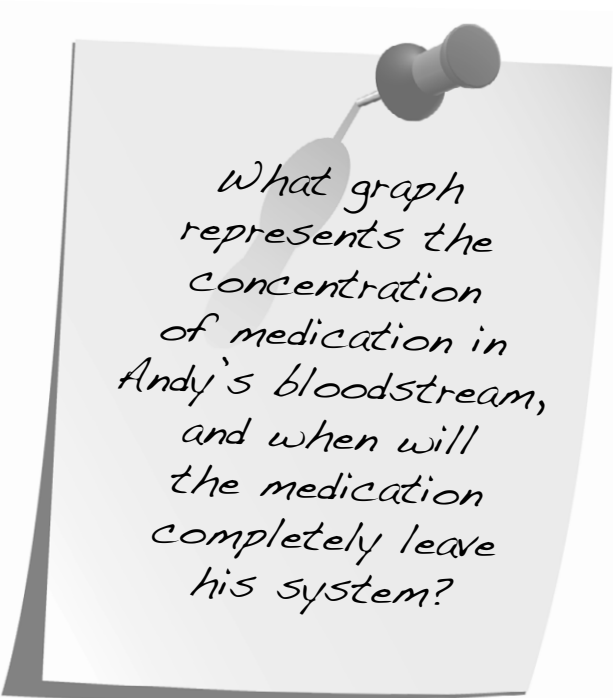
SMP

1 ✓ 2 ✓

3 ✓ 4 ✓

5 6 ✓

7 ✓ 8



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