MATH 251 (PHILLIPS) QUIZ 2, 9:00 ar	m F 21 February 2025. 20 minutes; 20 points.
NAME:	Student id:
Standard exam instructions apply. In	n particular, no calculators, no communication de-
vices, and no notes except as 3×5 file c	ard, written on both sides. Also, all notation must
be correct, with "=", "lim", etc. everywh	nere they are supposed to be, and nowhere they are
not supposed to be. Write answers on th	is page. Use the back if necessary.

(20 points) A circular puddle of water on a hot sidewalk in Needles CA is evaporating. At 2:00 pm, it had a radius of 10 inches, and its radius was decreasing at 3 inches per hour. At that time, was its area increasing or decreasing? At what rate? (Be sure to include the correct units in your answer.)