

Ch 5.1 Pg 270 #'s 2-4, 9, 16, 20a, 24, 28, 30

2 Particle at $t=4$ is ^{at} $x=20$.

3 Particle at $t=4$ is at 25.

4 At $t=5$, the particle is at 46.25

9 Area ≈ 13.25

16 a) LRAM = 7.25 ft

b) RRAM = 7.25 ft.

20 a) $S_8 \approx 146.084$ or 46.5π

Overestimate - each rectangle goes beyond the curve.

24. $V_5 \approx 10\pi \approx 31.4159$

28 a) RRAM = 758 gallons
LRAM = 543 "

b) RRAM = 2363 gallons
LRAM = 1693 "

c) Worst case = 31.44 hrs

Best case = 32.37 hrs