

Problem 4: §2.1 #6

Answers:

(a) (i) on $[1, 2]$, $v_{avg} =$

(ii) on $[1, 1.5]$, $v_{avg} =$

(iii) on $[1, 1.1]$, $v_{avg} =$

(iv) on $[1, 1.01]$, $v_{avg} =$

(v) on $[1, 1.001]$, $v_{avg} =$

(b) $v(1) \approx$

Problem 5: §2.6 #14

Work:

Answers:

(a) $v(1) =$

(b) $v(a) =$

(c) $t =$

(d) $v =$

Problem 6: §2.7 # 44

Answers: (i) position is curve

(ii) velocity is curve

(iii) acceleration is curve

(iv) jerk is curve