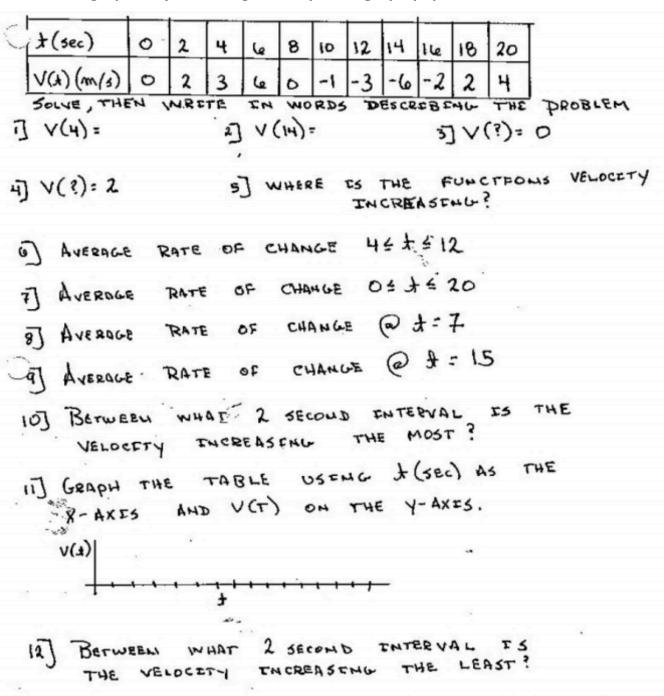
Assignment 1.2 – Particle Motion

Each table shows the velocity, v(t) of a particle at time t. Make sure you describe each of your answers in words. All of the graphs are templates for you to use to graph on your own given, separate graph paper.



ES THE PARTICLE AT REST?

Assignment 1.2 - Particle Motion

THE FOLLOWENG TABLE SHOWS THE VELOCETY OF A

PARTICLE ALONG THE X-AXES

+ (sec) 0 2 4 6 8 10 12 14 16 18 20

V(+) (m/s) 0 -1 -4 -2 0 1 3 6 2 1 0

5] WHERE IS THE FUNCTIONS VELOCETY INCREASENC!

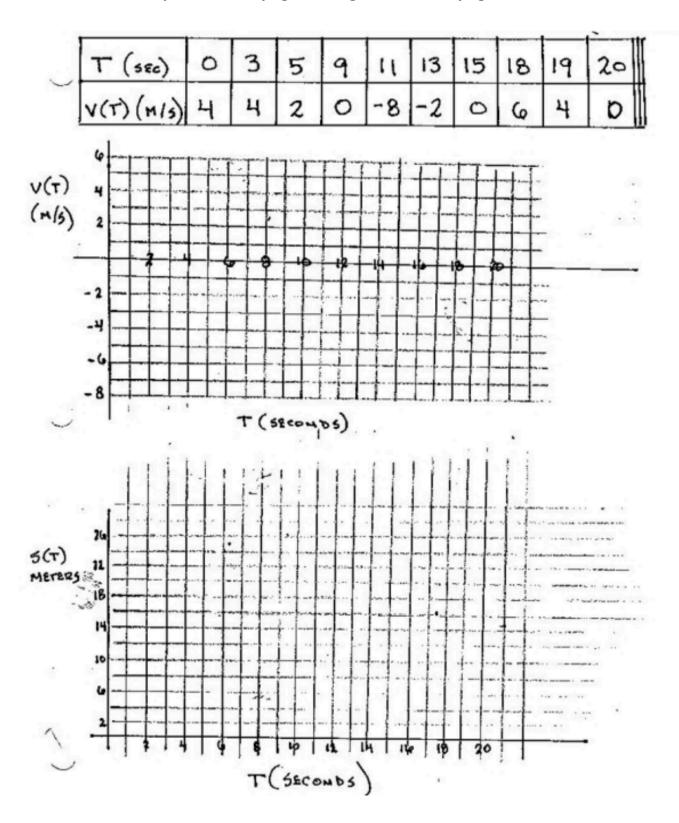
- 6 AVERAGE RATE OF CHANGE 44 + 14
- AVERAGE RATE OF CHANGE 104 14 18
- 8) AVERAGE RATE OF CHANGE Of : 11
- P) AVERAGE RATE OF CHANGE @ 1 = 3
- INCREASING THE MOST?
- IT GRAPH THE TABLE USEND & (SEC) AS THE X-AXES



- 12 AT WHAT TEMES IS THE PARTICLE AT REST
- DESTANCE (DESPLACEMENT) OF THE PARTECLE
- 14) WHEN IS THE PARTECLE FURTHEST AWAY FROM
 THE ORIGIN?

Assignment 1.2 – Particle Motion

Answer the questions on page 4 using this data on page 3.



Assignment 1.2 - Particle Motion

U V(11): 2) V(?)= (e 3) V(5)= WHERE IS THE VELOCITY ENCREASING? (IN WHAT THEW HI) 5) AT WHAT TEME(S) DOES THE PARTECLE CHAMGE DIRECTE ONS ? 4) AVERAGE RATE OF CHANGE 94 T 4 19 7 AVERGGE RATE OF CHANGE 114 TE18 8 AVERAGE RATE OF CHANGE @ T=4 9 AVERAGE RATE OF CHANGE @ T = 12 107 BETWEEN WHAT INTERVAL IS THE VELOCITY INCREASING THE MOST ? 11] BETWEEN WHAT INTERVAL IS THE ACCELERATION EQUAL TO ZERO 12) AT WHAT TENE IS THE PARTICLE FURTHEST FROM THE ORFOTH! 13 HOW MANY TEMES IS THE PARTICLE 12 METRES FROM THE ORFGEN? IN THE THERVAL(S) TS THE PARTECLES SPEED

15) AT WHAT TEME(S) IS THE PARTECLE AT REST?