PRINT NAME: Grace Liu

PERM NUMBER: 9835331

Put your answer in the [box] provided.

TA: ☐ Garo ☑ Trevor ☐ Sam

Time: ☐ 8am ☐ 6pm ☑ 5pm ☐ 7pm

1. The table below shows the position of a point on the x-axis during the time interval $0 \le t \le 5$ where x is measured in feet and t in seconds.

t (seconds)	0	1	2	3	4	5
x (feet)	0.0	1.5	2.8	4.6	7.4	8.5

1.3   1.8   2.8

(a) What was the average speed during the five seconds?

$$\frac{8.5 - 0}{5 - 0} = \frac{8.5}{5} = \frac{85}{50}$$

average speed = $\dfrac{85}{50}$ ft/s

(b) When was the speed greatest?

During the interval starting at $t =$ 3 secs

(c) Estimate the speed of the particle at $t = 2.5$ seconds.

$$\frac{4.6 - 2.8}{3 - 2} = \frac{1.8}{1} = 1.8$$

speed ≈ 4.5 ft/s

$2.5(1) + 2.5(0.8)$
$2.5 + 2$
$= 4.5$

PRINT NAME **Casie Trotter**

PERM NUMBER **9789702**

Put your answer in the **box** provided.

TA: ☐ Garo ☒ Trevor ☐ Sam

Time: ☐ 8am ☐ 6pm ☒ 5pm ☐ 7pm

1. The table below shows the position of a point on the x-axis during the time interval $0 \le t \le 5$ where x is measured in feet and t in seconds.

t (seconds)	0	1	2	3	4	5
x (feet)	0.0	1.5	2.8	4.6	7.4	8.5

1.5   1.3   1.8   2.8   1.1

(a) What was the average speed during the five seconds?

$$\frac{8.5}{5} = 1.7$$

average speed = **1.7** ft/s

$$\begin{array}{r} 1.7 \\ 5\overline{)8.5} \\ -5 \\ \hline 35 \end{array}$$

(b) When was the speed greatest?

$$\begin{array}{r} 7.4 \\ -4.6 \\ \hline 2.8 \end{array} \quad \begin{array}{r} 2.8 \\ -1.5 \\ \hline 1.3 \end{array} \quad \begin{array}{r} 4.6 \\ -2.8 \\ \hline 1.8 \end{array} \quad \begin{array}{r} 8.5 \\ -7.4 \\ \hline 1.1 \end{array}$$

During the interval starting at $t =$ **3** secs

(c) Estimate the speed of the particle at $t = 2.5$ seconds.

$$\begin{array}{r} .80 \\ 2\overline{)1.7} \\ -16 \\ \hline 1 \end{array} \quad \begin{array}{r} 2.8 \\ +.8 \\ \hline 3.6 \end{array}$$

speed $\approx$ **3.6** ft/s

PRINT NAME: Tyler Grewer

PERM NUMBER: 9534025

Put your answer in the box provided.

TA: ☐ Garo ☑ Trevor   ☐ Sam

Time: ☐ 8am ☑ 5pm   ☐ 6pm ☐ 7pm

1. The table below shows the position of a point on the x-axis during the time interval $0 \le t \le 5$ where x is measured in feet and t in seconds.

t (seconds)	0	1	2	3	4	5
x (feet)	0.0	1.5	2.8	4.6	7.4	8.5

(a) What was the average speed during the five seconds?

$$\frac{8.5 - 0}{5 - 0} = \frac{8.5}{5}$$

average speed $= \boxed{\dfrac{8.5}{5}}$ ft/s

(b) When was the speed greatest?

During the interval starting at $t = \boxed{5}$ secs

(c) Estimate the speed of the particle at $t = 2.5$ seconds.

$$\frac{8.5-}{5-2.5} = \overline{2.5}$$

speed $\approx \boxed{3.3}$ ft/s

PRINT NAME: VEDA PARKER

PERM NUMBER: 9810250

Put your answer in the **box** provided.

TA: ☐ Garo ☑ Trevor ☐ Sam

Time: ☐ 8am ☑ 5pm ☐ 6pm ☐ 7pm

1. The table below shows the position of a point on the x-axis during the time interval $0 \leq t \leq 5$ where x is measured in feet and t in seconds.

t (seconds)	0	1	2	3	4	5
x (feet)	0.0	1.5	2.8	4.6	7.4	8.5

(a) What was the average speed during the five seconds?

$$\frac{8.5 - 7.4}{5 - 4} = 1.1 \qquad \frac{(4.5 + 1.1) - 8.5}{1.1}$$

$$= \frac{9.6 - 8.5}{1.1}$$

$$= \frac{1.1}{1.1}$$

average speed = 1 ft/s

(b) When was the speed greatest?

During the interval starting at $t = $ **3** secs

(c) Estimate the speed of the particle at $t = 2.5$ seconds.

$$\frac{4.6 - 2.8}{2 - 1} = \frac{1.8}{1}$$

speed $\approx$ **1.8** ft/s

$$\begin{array}{r} 3 \\ 4.6 \\ -2.8 \\ \hline 1.8 \end{array}$$

Michaela Wong
PRINT NAME

PERM NUMBER
751773

Put your answer in the | box | provided.

TA: ☐ Garo ☑ Trevor   Time: ☐ 8am ☐ 6pm
    ☐ Sam   ☑ 5pm ☐ 7pm

1. The table below shows the position of a point on the x-axis during the time interval $0 \leq t \leq 5$ where x is measured in feet and t in seconds.

t (seconds)	0	1	2	3	4	5
x (feet)	0.0	1.5	2.8	4.6	7.4	8.5

(a) What was the average speed during the five seconds?

1.5
+ 2.8
+ 4.6
‾‾‾‾
18.9
+ 7.4
‾‾‾‾
16.3

16.3
+ 8.5
‾‾‾‾
24.8 ft

÷6

average speed = 4.8 ft/s

(b) When was the speed greatest?

1.5   2.8   4.6
- 1.0   - 2.0   - 3.0
‾‾‾‾   ‾‾‾‾   ‾‾‾‾
0.5   0.8   1.6

7.4   8.5   4.6
- 4.0   - 5.0   - 2.8
‾‾‾‾   ‾‾‾‾   ‾‾‾‾
3.4   3.5   1.8

During the interval starting at $t =$ 4 secs

(c) Estimate the speed of the particle at $t = 2.5$ seconds.

2.8
+ 0.6
‾‾‾‾
3.4

speed ≈ 3.4 ft/s

PRINT NAME: Zach Wimer

PERM NUMBER: 8442659

Put your answer in the [box] provided.

TA: ☐ Garo ☑ Trevor   Time: ☐ 8am ☐ 6pm
☐ Sam   ☑ 5pm ☐ 7pm

1. The table below shows the position of a point on the x-axis during the time interval $0 \le t \le 5$ where x is measured in feet and t in seconds.

t (seconds)	0	1	2	3	4	5
x (feet)	0.0	1.5	2.8	4.6	7.4	8.5

(a) What was the average speed during the five seconds?

average speed = $\boxed{24.8/6}$ ft/s

8.7

16.3

$8.5 - 1.5$

$\dfrac{1}{5}$

$\dfrac{24.8}{5}$

(b) When was the speed greatest?

During the interval starting at $t = \boxed{3}$ secs

(c) Estimate the speed of the particle at $t = 2.5$ seconds.

$\begin{array}{l} 3\ \ 16 \\ 4.6 \\ -2.8 \end{array}$

$\dfrac{1.8}{2}$

speed $\approx \boxed{3.7}$ ft/s

$4.6 - 2.8$

$.9 + 2.8$

3.7

Megan Graper

PRINT NAME

PERM NUMBER

9661133

Put your answer in the box provided.

TA: ☐ Garo ☑ Trevor   Time: ☐ 8am   ☐ 6pm
☐ Sam   ☑ 5pm   ☐ 7pm

1. The table below shows the position of a point on the x-axis during the time interval $0 \le t \le 5$ where x is measured in feet and t in seconds.

7.4

t (seconds)	0	1	2	3	4	5
x (feet)	0.0	1.5	2.8	4.6	7.4	8.5

1.3 1.0 2.8 1.1

(a) What was the average speed during the five seconds?

$1.5 + 2.8 + 4.6 + 7.4 + 8.5$

$$\frac{10 + 12 + 2.8 \text{ feet}}{5 \text{ seconds}}$$

$$\frac{24.8 \text{ feet}}{5 \text{ seconds}} = 4.96 \text{ ft/second}$$

average speed = 4.96 ft/s

8.5
+1.5
10

4.6
7.4
12.0

4.96
5⟌24.80
-20↓↓
4 80
-4 5

(b) When was the speed greatest?

During the interval starting at $t =$ 3 secs

$$\frac{7.4 - 4.6}{4 - 3} = \frac{2.8}{1} = 2.8 \text{ seconds}$$

(c) Estimate the speed of the particle at $t = 2.5$ seconds.

$2.8 \times 0.5 = 1.4$

speed ≈ 6.0 ft/s

4.6
+1.4
6.0

PRINT NAME: Geneva Dunn

PERM NUMBER: 8461519

Put your answer in the box provided.

TA: ☐ Garo ☑ Trevor ☐ Sam

Time: ☐ 8am ☑ 5pm ☐ 6pm ☐ 7pm

1. The table below shows the position of a point on the x-axis during the time interval $0 \le t \le 5$ where x is measured in feet and t in seconds.

t (seconds)	0	1	2	3	4	5
x (feet)	0.0	1.5	2.8	4.6	7.4	8.5

+1.5   +1.3   +1.8

(a) What was the average speed during the five seconds?

$$\frac{8.5 - 7.4}{5 - 4}$$

$$\frac{1.1}{1}$$

average speed = 1.1 ft/s

(b) When was the speed greatest?

$0 \to 1$ $\frac{1.5 - 0}{1 - 0} = 1.5$

$1 \to 2$ $\frac{2.8 - 1.5}{2 - 1} = 1.3$

at $2 \to 3$ $\frac{4.6 - 2.8}{3 - 2} = 1.8$

$\frac{3}{4.6}$ $\frac{2.8}{1.8}$ $\frac{6}{4.6}$ $\frac{4.6}{2.8}$

$3 \to 4$ $\frac{7.4 - 4.6}{4 - 3} = 2.8$

During the interval starting at $t = 3$ secs

(c) Estimate the speed of the particle at $t = 2.5$ seconds.

$2.5, 3.4$

$\frac{4.6 - 2.8}{3 - 2} = 1.8$

speed ≈ 1.8 ft/s

PRINT NAME: *Keanna Lam*

PERM NUMBER: 7847205

Put your answer in the box provided.

TA: ☐ Garo ☑ Trevor ☐ Sam

Time: ☐ 8am ☑ 5pm ☐ 6pm ☐ 7pm

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1. The table below shows the position of a point on the x-axis during the time interval $0 \le t \le 5$ where x is measured in feet and t in seconds.

t (seconds)	0	1	2	3	4	5
x (feet)	0.0	1.5	2.8	4.6	7.4	8.5

(handwritten above table: 1.5   1.3   1.8   2.8   1.1)

(a) What was the average speed during the five seconds?

$$\frac{0 + 1.5 + 2.8 + 4.6 + 7.4 + 8.5}{5} = \frac{24.8}{5}$$

average speed = $\dfrac{6.5}{5}$ ft/s

$\begin{array}{r} 1.5 \\ +\,8.5 \\ \hline 10.0 \end{array}$ $\begin{array}{r} 4.6 \\ +\,7.4 \\ \hline 12.0 \end{array}$

$\begin{array}{r} 10.0 \\ +\,12.0 \\ \hline 22.0 \\ +\,2.8 \\ \hline 24.8 \end{array}$

$\begin{array}{r} 1.5 \\ +\,1.3 \\ \hline 2.8 \\ +\,1.8 \\ \hline 2.6 \end{array}$ 2.8 3.4 ... 6.5

$\dfrac{6.5}{5}$

$5\,\overline{)6.5}$ 5.0 1.50

(b) When was the speed greatest?

During the interval starting at $t = $ **3** secs

$\begin{array}{r} 2.8 \\ -\,1.5 \\ \hline 1.3 \end{array}$ $\begin{array}{r} 7.4 \\ -\,4.6 \\ \hline 2.8 \end{array}$ $\begin{array}{r} 8.5 \\ -\,7.4 \\ \hline 1.1 \end{array}$

(c) Estimate the speed of the particle at $t = 2.5$ seconds.

$$\frac{4.6 - 2.8}{1} =$$

speed $\approx$ **1.8** ft/s

$\begin{array}{r} 4.6 \\ -\,2.8 \\ \hline 1.8 \end{array}$

PRINT NAME: Danigza Benitez

PERM NUMBER: 8247835

Put your answer in the | box | provided.

TA: ☐ Garo ☑ Trevor ☐ Sam

Time: ☐ 8am ☑ 5pm ☐ 6pm ☐ 7pm

1. The table below shows the position of a point on the x-axis during the time interval $0 \le t \le 5$ where x is measured in feet and t in seconds.

t (seconds)	0	1	2	3	4	5
x (feet)	0.0	1.5	2.8	4.6	7.4	8.5

(a) What was the average speed during the five seconds?

$t = 0$ $t = 5$
0.0 ft 8.5 ft

$\frac{8.5 - 0}{5 - 0} = \frac{8.5}{5}$

$5\overline{)8.5}$ ... 1.7

$\boxed{1.7 \text{ ft/s}}$
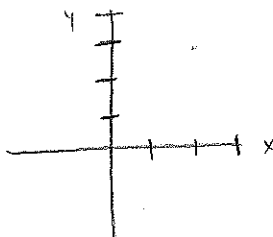
average speed = | 1.7 | ft/s

(b) When was the speed greatest?

During the interval starting at $t =$ | 3 | secs

(c) Estimate the speed of the particle at $t = 2.5$ seconds.

0   1   2   3
0   1.5 2.8 4.6

2   2.5   3
2.8   4.6

SLOPE $= \frac{5-2}{4.6-1.5} = \frac{1}{1.8} x$

$\frac{4.6}{6.4}$

speed $\approx$ | $2.5/1.8$ | ft/s

PRINT NAME Justin Kern

PERM NUMBER
7884059

Put your answer in the [box] provided. TA: ☐ Garo ☑ Trevor ☐ Sam   Time: ☐ 8am ☑ 5pm ☐ 6pm ☐ 7pm

1. The table below shows the position of a point on the x-axis during the time interval $0 \le t \le 5$ where x is measured in feet and t in seconds.

t (seconds)	0	1	2	3	4	5
x (feet)	0.0	1.5	2.8	4.6	7.4	8.5

(handwritten annotations: 2.5 above, 1.5 1.3 1.8 2.8 1.1 below, 0 1 2 3 4 5)

(a) What was the average speed during the five seconds?

average speed = 1.7 ft/s

$$\frac{8.5 - 0}{5 - 0} = \frac{8.5}{5}$$

In 5 seconds went 8.5 ft

$5\overline{)8.5}$ 1.7
  5
  3.5
  3.3

(b) When was the speed greatest?

During the interval starting at $t = 4$ secs

7.4
4.6
2.8
1

$$\frac{7.4 - 4.6}{4 - 3} = \frac{2.8}{1} = \frac{f(4) - f(3)}{4 - 3}$$

Biggest inc btwn 3 & 4

(c) Estimate the speed of the particle at $t = 2.5$ seconds.

speed ≈ 1.8 ft/s

4.6
-2.8
1.8

$2 < 2.5 < 3$ known directly
In between

$$\frac{4.6 - 2.8}{3 - 2} = \frac{1.8 \, ft}{1 \, sec} = \frac{1.8}{1} = \frac{f(3) - f(2)}{3 - 2}$$

$S = ft/second$

ft
second

PRINT NAME: TONY YANG

PERM NUMBER: 8003949

Put your answer in the [box] provided.

TA: ☐ Garo ☒ Trevor ☐ Sam

Time: ☐ 8am ☒ 6pm ☐ 5pm ☐ 7pm

1. The table below shows the position of a point on the x-axis during the time interval $0 \le t \le 5$ where x is measured in feet and t in seconds.

t (seconds)	0	1	2	3	4	5
x (feet)	0.0	1.5	2.8	4.6	7.4	8.5

1.5   1.3   1.8   2.8   0.9

(a) What was the average speed during the five seconds?

$$\frac{8.5-0}{5-0} = 1.7$$

$$\begin{array}{r} 1.7 \\ 5\overline{)8.5} \\ \hline 35 \end{array}$$

average speed = $\boxed{1.7}$ ft/s

(b) When was the speed greatest?

During the interval starting at $t = \boxed{3}$ secs

(c) Estimate the speed of the particle at $t = 2.5$ seconds.

$$\frac{1.8-1.3}{2} + 1.3 = 1.35$$

speed $\approx \boxed{1.35}$ ft/s

ISABELLE SALIGUMBA
PRINT NAME

PERM NUMBER
9405796

Put your answer in the [box] provided.   TA: ☐ Garo ☑ Trevor Time: ☐ 8am ☑ 6pm
                                              ☐ Sam   ☐ 5pm ☐ 7pm

1. The table below shows the position of a point on the x-axis during the time interval $0 \le t \le 5$ where x is measured in feet and t in seconds.

t (seconds)	0	1	2	3	4	5
x (feet)	0.0	1.5	2.8	4.6	7.4	8.5

(a) What was the average speed during the five seconds?

$$\frac{8.5 - 0}{5 - 0} = \frac{8.5}{5}$$

$$5 \overline{)8.5} \quad 1.7$$

average speed = $8.5 / 5 = \boxed{1.7}$ ft/s

(b) When was the speed greatest?

$$\frac{1.5 - 0}{1 - 0} = \frac{1.5}{1} = 1.5$$

$$\frac{2.8 - 1.5}{2 - 1} = \frac{1.3}{1} = 1.3$$

$$\frac{4.6 - 2.8}{3 - 2} = \frac{1.8}{1} = 1.8$$

$$\frac{7.4 - 4.6}{4 - 3} = \frac{2.8}{1} = 2.8$$

$$\frac{8.5 - 7.4}{5 - 4} = \frac{1.1}{1} = 1.1$$

During the interval starting at $t =$ $\boxed{3}$ secs

3 → 4 SECONDS
GREATEST SPEED

(c) Estimate the speed of the particle at $t = 2.5$ seconds.

BECAUSE 2 → 3

1.8

$2 \overline{)1.8}$ .9

$$\frac{2.8}{0.9} = \frac{3.7}$$

speed ≈ $\boxed{3.7}$ ft/s

$$\frac{2.9}{1.8}$$

Math 34A Winter 2020
Quiz #4c

No calculators

PRINT NAME: Karla Hernandez Leyva

PERM NUMBER: 945760-7

Put your answer in the [box] provided.

TA: ☐ Garo ☑ Trevor ☐ Sam

Time: ☐ 8am ☑ 6pm ☐ 5pm ☐ 7pm

---

1. The table below shows the position of a point on the x-axis during the time interval $0 \le t \le 5$ where x is measured in feet and t in seconds.

t (seconds)	0	1	2	3	4	5
x (feet)	0.0	1.5	2.8	4.6	7.4	8.5

1.5   1.4   1.53   1.85   1.70

(a) What was the average speed during the five seconds?

$1.5 + 1.4 + 1.53 + 1.85 + 1.70$

$2.9 + 3.38 + 1.70$

$6.28 + 1.70 \rightarrow \dfrac{7.98}{5} = 1.596$

average speed = $\boxed{1.596}$ ft/s

(b) When was the speed greatest?

$\begin{array}{r} 1.58 \\ 5\overline{)7.98} \end{array}$

During the interval starting at $t = \boxed{4}$ secs

(c) Estimate the speed of the particle at $t = 2.5$ seconds.

$\dfrac{1.53 - 1.4}{.5}$ $\dfrac{.13}{.5}$

speed $\approx \boxed{1.3}$ ft/s

Math 34A Winter 2020
Quiz #4c

No calculators

PRINT NAME: Grace Cain!

PERM NUMBER: 9367517

Put your answer in the | box | provided.

TA: ☐ Garo ☑ Trevor Time: ☐ 8am ☑ 6pm
☐ Sam   ☐ 5pm ☐ 7pm

---

1. The table below shows the position of a point on the x-axis during the time interval $0 \le t \le 5$ where x is measured in feet and t in seconds.

t (seconds)	0	1	2	3	4	5
x (feet)	0.0	1.5	2.8	4.6	7.4	8.5

(a) What was the average speed during the five seconds?

$5 - 0 = 5$

$8.5 - 0.0 = 8.5$

$\frac{8.5}{5}$

average speed = 1.7 ft/s

(b) When was the speed greatest?

During the interval starting at $t =$ 3 secs

(c) Estimate the speed of the particle at $t = 2.5$ seconds.

$4.6 - 2.8 = 1.8$

$\begin{array}{r} 34.16 \\ 2.8 \\ \hline 1.8 \end{array}$

1.8 $\frac{1.5}{30}$

$\frac{.36}{0.5 \overline{)1.80}}$

speed ≈ $.36$ ft/s

PRINT NAME: Allinta Tadesse

PERM NUMBER: 8045064

Put your answer in the [box] provided.

TA: ☐ Garo ☒ Trevor ☐ Sam

Time: ☐ 8am ☒ 6pm ☐ 5pm ☐ 7pm

1. The table below shows the position of a point on the x-axis during the time interval $0 \le t \le 5$ where x is measured in feet and t in seconds.

t (seconds)	0	1	2	3	4	5
x (feet)	0.0	1.5	2.8	4.6	7.4	8.5

1.5   1.3   1.8   2.8   1.1

(a) What was the average speed during the five seconds?

$$\frac{dt}{dx} = \frac{8.5 - 0}{5 - 0} = \frac{8.5}{5} = 1.7$$

$$5\overline{)8.5} \quad 1.7$$
$$\quad 5$$
$$\quad 35$$

average speed = [1.7] ft/s

(b) When was the speed greatest?

2.8   4.6¹⁶   7.4
-1.5 -2.8   -4.6   8.5
───── ─────   2.8   -7.4
1.3   1.8   ─────
                      1.1

During the interval starting at $t =$ [3] secs

(c) Estimate the speed of the particle at $t = 2.5$ seconds.

≈ 1.8

speed $\approx$ [1.8] ft/s

PRINT NAME: Samatar Essa

PERM NUMBER: 8047599

Put your answer in the [box] provided.

TA: ☐ Garo ☑ Trevor   ☐ Sam

Time: ☐ 8am ☑ 6pm   ☐ 5pm ☐ 7pm

1. The table below shows the position of a point on the x-axis during the time interval $0 \le t \le 5$ where x is measured in feet and t in seconds.

t (seconds)	0	1	2	3	4	5
x (feet)	0.0	1.5	2.8	4.6	7.4	8.5

1.3   1.4   2.8   1.1

(a) What was the average speed during the five seconds?

average speed = [1.7] ft/s

(b) When was the speed greatest?

During the interval starting at $t =$ [3] secs

(c) Estimate the speed of the particle at $t = 2.5$ seconds.

$$\frac{f(3-2) - f(2.5)}{3+2 - 2.5}$$

$$\frac{1.8 - f(2.5)}{2.5}$$

$$\frac{4.6 - 2.4}{5 - 2.5} - 2.5$$

$$\frac{.7}{7.5}$$

speed $\approx$ [$\frac{1.8 - f(2.5)}{2.5}$] ft/s

$$\frac{1.8 - 2.5}{7.5}$$

PRINT NAME: Anyel Sololes

PERM NUMBER: 9821265

Put your answer in the | box | provided.

TA: ☐ Garo ☐ Trevor   Time: ☐ 8am   ☐ 6pm
    ☐ Sam   ☐ 5pm   ☐ 7pm

1. The table below shows the position of a point on the x-axis during the time interval $0 \le t \le 5$ where x is measured in feet and t in seconds.

t (seconds)	0	1	2	3	4	5
x (feet)	0.0	1.5	2.8	4.6	7.4	8.5

(a) What was the average speed during the five seconds?

1.5
2.8
4.6
7.4
8.5

$\sqrt{24.8}$
20
-48
$\frac{5}{3}$

average speed = | 4461.46 | ft/s

(b) When was the speed greatest?

During the interval starting at $t =$ | 3 & 4 | secs

(c) Estimate the speed of the particle at $t = 2.5$ seconds.

speed $\approx$ | 3.4 | ft/s

Math 34A Winter 2020
Quiz #4c

No calculators

PRINT NAME   Dj Scott

PERM NUMBER
8052102

Put your answer in the [box] provided.   TA: ☐ Garo ☑ Trevor   Time: ☐ 8am ☑ 6pm
                                            ☐ Sam   ☐ 5pm ☐ 7pm

---

1. The table below shows the position of a point on the x-axis during the time interval $0 \le t \le 5$ where x is measured in feet and t in seconds.

t (seconds)	0	1	2	3	4	5
x (feet)	0.0	1.5	2.8	4.6	7.4	8.5

(a) What was the average speed during the five seconds?

$$\frac{8.5 - 7.4}{5 - 4} = \frac{1.1}{1} = 1.1$$

$$\begin{array}{r} 1.1 \\ 1.5.9 \\ + 7.4 \\ \hline 88 \end{array}$$

8.5 ⟩ 15.9
+7.4
+4.6 ⟩ 7.4 ⟩ 23.3
+2.8 ⟩11.5 +1.5
+1.5 —— 24.8

$$\begin{array}{r} 4.96 \\ 5\overline{)24.80} \\ 20\downarrow \\ \hline 48 \\ 45\downarrow \\ \hline 30 \end{array}$$

average speed = [4.96] ft/s

(b) When was the speed greatest?

During the interval starting at $t =$ [3] secs

(c) Estimate the speed of the particle at $t = 2.5$ seconds.

$$\frac{4.6 - x}{3 - 2.5} = -\frac{0}{x}$$

$$\frac{4.6}{3 - 2.5} = -\frac{1}{x}$$

$$\frac{4.6}{0.5} = -\frac{1}{x}$$
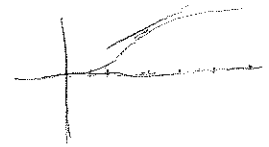
speed ≈ [ ] ft/s

PRINT NAME: Alejandra Angulara

Put your answer in the [box] provided.

TA: ☐ Garo ☒ Trevor ☐ Sam

Time: ☐ 8am ☒ 6pm ☐ 5pm ☐ 7pm

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1. The table below shows the position of a point on the x-axis during the time interval $0 \le t \le 5$ where x is measured in feet and t in seconds.

t (seconds)	0	1	2	3	4	5
x (feet)	0.0	1.5	2.8	4.6	7.4	8.5

(a) What was the average speed during the five seconds?

distance

$$\frac{8.5}{5}$$

average speed = 1.7   ft/s

(b) When was the speed greatest?

During the interval starting at $t =$ 4 secs

(c) Estimate the speed of the particle at $t = 2.5$ seconds.

$t = 2.5$
$S = ?$
$x = 3.2$

$\frac{3.2}{2.5}$

speed $\approx \dfrac{3.2}{2.5}$ ft/s

CAI, JULIE
PRINT NAME

PERM NUMBER
3479318

Put your answer in the | box | provided.   TA: ☐ Garo ☑ Trevor   Time: ☐ 8am ☑ 6pm
                                                ☐ Sam   ☐ 5pm ☐ 7pm

1. The table below shows the position of a point on the x-axis during the time interval $0 \le t \le 5$ where x is measured in feet and t in seconds.

t (seconds)	0	1	2	3	4	5
x (feet)	0.0	1.5	2.8	4.6	7.4	8.5

(a) What was the average speed during the five seconds?

$$\frac{8.5}{5} = 1.7 \, ft/s$$

average speed = | 1.7 | ft/s

(b) When was the speed greatest?

During the interval starting at $t =$ | 3 | secs

(c) Estimate the speed of the particle at $t = 2.5$ seconds.

speed $\approx$ | 2 | ft/s

PRINT NAME: Melissa Maldonado

PERM NUMBER: 8106502

Put your answer in the [box] provided.

TA: ☐ Garo ☒ Trevor ☐ Sam

Time: ☐ 8am ☒ 6pm ☐ 5pm ☐ 7pm

1. The table below shows the position of a point on the x-axis during the time interval $0 \leq t \leq 5$ where x is measured in feet and t in seconds.

t (seconds)	0	1	2	3	4	5
x (feet)	0.0	1.5	2.8	4.6	7.4	8.5

(a) What was the average speed during the five seconds?

$$5 \overline{)8.5}$$
$$\underline{5}$$
$$35$$

8.5
7.4
4.6
2.8
1.5
23.8

$$15 \overline{)23.8}$$
$$\underline{15}$$
$$8.8$$

average speed = [1.7] ft/s

(b) When was the speed greatest?

$$1 \overline{)1.5}$$
$$\underline{1}$$
$$.50$$

$$2 \overline{)2.80}$$
$$\underline{2}$$
$$.80$$

$$3 \overline{)4.6}$$
$$\underline{3}$$
$$16$$

$$4 \overline{)7.4}$$
$$\underline{4}$$
$$34$$

$$5 \overline{)8.5}$$
$$\underline{5}$$
$$35$$

During the interval starting at $t =$ [4] secs

(c) Estimate the speed of the particle at $t = 2.5$ seconds.

$(2, 2.8)$ $(3, 4.6)$

$$\frac{4.6}{2.8}$$
$$1.8$$

$$\frac{4.6 - 2.8}{3 - 2} = \frac{1.8}{1}$$

$$2.8$$
$$\underline{.9}$$
$$3.7$$

$$2 \overline{)1.8}$$
$$.9$$

$$2.8$$
$$1.8$$
$$4.6$$

speed $\approx$ [3.7] ft/s

Math 34A Winter 2020
Quiz #4c

No calculators

Grant Jamison
PRINT NAME

PERM NUMBER
6870588

Put your answer in the [box] provided.

TA: ☐ Garo ☑ Trevor   Time: ☐ 8am ☑ 6pm
    ☐ Sam   ☐ 5pm ☐ 7pm

1. The table below shows the position of a point on the x-axis during the time interval $0 \le t \le 5$ where x is measured in feet and t in seconds.

t (seconds)	0	1	2	3	4	5
x (feet)	0.0	1.5	2.8	4.6	7.4	8.5

(a) What was the average speed during the five seconds?

$5\overline{)8.5}$

average speed = 1.7 ft/s

(b) When was the speed greatest?

During the interval starting at $t = $ 2 secs

(c) Estimate the speed of the particle at $t = 2.5$ seconds.

$$\frac{F(x-\triangle x)-F(x)}{\triangle x} \Rightarrow \frac{4.6-2.8}{3-2} = \frac{1.8}{1}$$

speed $\approx$ 1 ft/s

PRINT NAME: Omar Tawil

PERM NUMBER: 9480724

Put your answer in the [box] provided.

TA: ☐ Garo ☑ Trevor ☐ Sam

Time: ☐ 8am ☑ 6pm ☐ 5pm ☐ 7pm

1. The table below shows the position of a point on the x-axis during the time interval $0 \le t \le 5$ where x is measured in feet and t in seconds.

t (seconds)	0	1	2	3	4	5
x (feet)	0.0	1.5	2.8	4.6	7.4	8.5

(under table: 1.5   1.3   1.8   2.8   1.1)

(right margin work:
3 16
4.6
7.4 14
- 2.8
1.5
4.6
2.5
2.8
+ 0.9
3.7)

(a) What was the average speed during the five seconds?

$$\begin{array}{r} 1.7 \\ 5\overline{)8.5} \\ \underline{5} \\ 35 \end{array}$$

average speed = **1.7** ft/s

(b) When was the speed greatest?

During the interval starting at $t =$ **3** secs

(c) Estimate the speed of the particle at $t = 2.5$ seconds.

$$\frac{1.8 + 1.3}{2} = \frac{3.1}{2}$$

speed ≈ **1.55** ft/s

Adam Ernster
PRINT NAME

PERM NUMBER
734607

Put your answer in the box provided.

TA: ☐ Garo ☑ Trevor ☐ Sam   Time: ☐ 8am ☐ 6pm ☐ 5pm ☑ 7pm

1. The table below shows the position of a point on the x-axis during the time interval $0 \leq t \leq 5$ where x is measured in feet and t in seconds.

t (seconds)	0	1	2	3	4	5
x (feet)	0.0	1.5	2.8	4.6	7.4	8.5

(a) What was the average speed during the five seconds?

1.5
+2.8
―――
5.3

5.3
+4.6
―――
9.9

9.9
+7.7
―――
17.6

17.6
+8.5
―――
26.1

5 ⟌ 26.1
  -20

average speed = 4.12 ft/s

(b) When was the speed greatest?

During the interval starting at $t =$ 5 secs

(c) Estimate the speed of the particle at $t = 2.5$ seconds.

2.8
+4.6
―――
7.4

2.5 ⟌ 7.5 → 3

speed ≈ 3 ft/s

25

PRINT NAME — CHENGYU YIN

PERM NUMBER — 9753153

Put your answer in the box provided.   TA: ☐ Garo ☑ Trevor ☐ Sam   Time: ☐ 8am ☐ 6pm ☐ 5pm ☑ 7pm

1. The table below shows the position of a point on the x-axis during the time interval $0 \le t \le 5$ where x is measured in feet and t in seconds.

t (seconds)	0	1	2	3	4	5
x (feet)	0.0	1.5	2.8	4.6	7.4	8.5

(a) What was the average speed during the five seconds?

$5 \overline{\smash{\big)}\, 8.5} \quad \dfrac{1.7}{3.5}$

$\dfrac{8-5}{5} = 1.7 \text{ ft/s}$

average speed = $\boxed{1.7}$ ft/s

(b) When was the speed greatest?

$0 = t^{-1} \quad 1.5$

$1-2$
☐ 1.3

$2-3 \quad 1.8$

$3-4 \quad 2.8$

$4-5 \quad 1.1$

During the interval starting at $t = \boxed{3}$ secs

(c) Estimate the speed of the particle at $t = 2.5$ seconds.

$\dfrac{2.8-1.5}{1} = \dfrac{1.3}{1} = 1.3$

$\dfrac{4.6-2.8}{1} = \dfrac{1.8}{1} = 1.8.$

speed $\approx \boxed{1.8}$ ft/s

PRINT NAME Taylor Mori

PERM NUMBER
8236176

Put your answer in the [box] provided.

TA: ☐ Garo ☑ Trevor   Time: ☐ 8am   ☐ 6pm
    ☐ Sam   ☐ 5pm   ☑ 7pm

---

1. The table below shows the position of a point on the x-axis during the time interval $0 \le t \le 5$ where x is measured in feet and t in seconds.

t (seconds)	0	1	2	③	4	5
x (feet)	0.0	1.5	2.8	4.6	7.4	8.5

(handwritten above/around table):
1.5   1.3   1.8   (2.8)   1.1

$\frac{2.8}{-1.5} = 1.3$

7.4
-2.8

1.8

8.5
-7.4

1.1

(a) What was the average speed during the five seconds?

$5\overline{)8.5}$ = 1.7

$\frac{8.5}{5} = 1.7$

average speed = [1.7] ft/s

(b) When was the speed greatest?

$t = 3$ $t = 4$

$\frac{7.4 - 4.6}{4 - 3} = 2.8 \, ft/s$

During the interval starting at $t =$ [3] secs

(c) Estimate the speed of the particle at $t = 2.5$ seconds.

$\frac{2.8 - 1.5}{2 - 1} = 1.3$

2.8
+0.5

3.3

$\frac{x - 2.8}{2.5 - 2} \rightarrow x - 2.8 = 2.5 - 2$

$x - 2.8 = 0.5$

$x = 3.3$

speed $\approx$ [3.3] ft/s

PRINT NAME Leonardo

PERM NUMBER
961381-1

Put your answer in the box provided.

TA: ☐ Garo ☑ Trevor   Time: ☐ 8am ☐ 6pm
☐ Sam   ☐ 5pm ☑ 7pm

1. The table below shows the position of a point on the x-axis during the time interval $0 \le t \le 5$ where x is measured in feet and t in seconds.

t (seconds)	0	1	2	3	4	5
x (feet)	0.0	1.5	2.8	4.6	7.4	8.5

(a) What was the average speed during the five seconds?

average speed = 2.02 ft/s

1.3
+1.8
+7.6
+1.1

8.1

(b) When was the speed greatest?

During the interval starting at $t =$ 3 secs

(c) Estimate the speed of the particle at $t = 2.5$ seconds.

speed ≈ 3.7 ft/s

Kristen Venegas
PRINT NAME

PERM NUMBER
8043036

Put your answer in the [box] provided.

TA: ☐ Garo ☒ Trevor   Time: ☐ 8am ☐ 6pm
☐ Sam   ☐ 5pm ☒ 7pm

1. The table below shows the position of a point on the x-axis during the time interval $0 \le t \le 5$ where x is measured in feet and t in seconds.

t (seconds)	0	1	2	3	4	5
x (feet)	0.0	1.5	2.8	4.6	7.4	8.5

$S = \dfrac{d}{t}$

$3\overline{)1.6}$ $\dfrac{7.4}{4}$
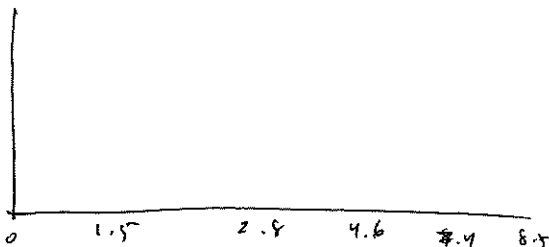
(a) What was the average speed during the five seconds?

$\dfrac{Y_2 - Y_1}{X_2 - X_1}$

$\dfrac{f(x - \Delta x) - f(x)}{\Delta x}$

$t=2= 1.7$

average speed = | 1.0 | ft/s

$4\overline{)7.4}$ -7 3.4

$3\sqrt{4.60}$ -3 1.6 1.0

$5\overline{)8.5}$ 3.5

$\boxed{t=1=1.5}$
$t=2=1.7$

(b) When was the speed greatest?

During the interval starting at $t =$ | 1 | secs

$2\overline{)2.8} = 1.4$

$3\overline{)4.6}$ -3

1.8
$\times 2.5$
9.0

450
$+0.8$

1.8
$\times 2$
3.6

(c) Estimate the speed of the particle at $t = 2.5$ seconds.

x   y
$(2, 2.8)$

$\dfrac{Y_2 - Y_1}{X_2 - X_1}$ $\dfrac{4.6 - 2.8}{3 - 2}$ $\dfrac{1.8}{1}$ speed ≈ | 5.3 | ft/s

$(3, 4.6)$
x_2 y_2

4.6
-2.8
1.8

$y = 1.8x + b$

$2.8 = 1.8(2) + b$
$2.8 = 3.6 + b$
$-3.6 = -3.6$
$= b$

-2.8
$+2.8$
$0.8 = b$

$y = 1.8(2.5) + 0.8$