Math 34A Winter 2020
Quiz #4a

No calculators

Claire Sellicu
PRINT NAME

PERM NUMBER
79677743

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	1.3	2.9	4.1	5.3	6.5

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

$\frac{6.5-0}{5-0} = 6\frac{1}{2} \times \frac{1}{5} = \frac{13}{2} \times \frac{1}{5} = \frac{13}{10}$ ft/s or 1.3

average speed = $13/10$ ft/s

(b) When was the speed greatest?

$\frac{2.9-1.3}{2-1} = 1.6$ ft/s

During the interval starting at $t =$ 1 secs

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

$\frac{4.1-2.9}{3-2} = 1.2$ ft/s

$2.5 \times 1.2 = 5.0 + 2.50 = 3.00$

speed $\approx$ 3 ft/s

$x(2.5) = 1.2(2.5)$
$= 3$ ft/s

Math 34A Winter 2020
Quiz #4a

No calculators

Andrew Lugo
PRINT NAME

PERM NUMBER
8237826

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	1.3	2.9	4.1	5.3	6.5

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

1.3, 1.6, 1.2, 1.2, 1.2

average speed = 1.26 ft/s

2.9 − 1.3 = 1.6

3 11
~~4~~ X
2.9
1.2

1.2
1.2
1.2
3.6
1.6
5:2

1.26
5) 6.30
5
13
10
30

(b) When was the speed greatest?

1.26 − 1.00 = 0.26

During the interval starting at $t =$ 1 secs

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

speed $\approx$ 1.2 ft/s

Math 34A Winter 2020
Quiz #4a

No calculators

Beau Karnsrithong
PRINT NAME

PERM NUMBER
3547056

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	1.3	2.9	4.1	5.3	6.5

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

average speed = $6.5/5$ ft/s

$\frac{dy}{dx} = \frac{6.5 - 0.0}{5 - 0} = \frac{6.5}{5}$

(b) When was the speed greatest?

During the interval starting at $t =$ 1 secs

$0 \to 0.0 \to 1.3$
$1 \to 1.3 \to 1.6$
$2 \to 2.9 \to 1.2$
$3 \to 4.1 \to 1.2$
$4 \to 5.3 \to 1.2$
$5 \to 6.5$

$\frac{2.9 - 1.3}{2 - 1} = \frac{1.6}{1} = 1.6$ ft/s

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

speed $\approx$ 1.2 ft/s

$\frac{4.1 - 2.9}{3 - 2} = \frac{1.2}{2} \simeq 1.2$

$2 \to 3 \to 4 \to 5$
$\simeq 1.2$ ft/s

Math 34A Winter 2020
Quiz #4a

No calculators

PRINT NAME Riya Singh

PERM NUMBER 7843121

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 $0 \leq t \leq 5$ where x is measured in feet and t in seconds.

t (seconds)	0	1	2	3	4	5
x (feet)	0.0	1.3	2.9	4.1	5.3	6.5

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

5 sec = 6.5 ft

2.9 − 1.3 = 1.6

6.5 − 5.3 = 1.2

average speed = 1.4 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 $\approx$ 16 ft/s

Math 34A Winter 2020
Quiz #4a

No calculators

Omkar Hanamsagar
PRINT NAME

PERM NUMBER
8260317

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	1.3	2.9	4.1	5.3	6.5

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

$\frac{5-0}{6.5-0} = \frac{6.5}{r}$

$5\overline{)6.5}$ → .13

.13 × 5 = 6.5

average speed = 1.3 ft/s

(b) When was the speed greatest?

During the interval starting at $t =$ 1 secs

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

speed $\approx$ 3.5 ft/s

Math 34A Winter 2020
Quiz #4a

No calculators

Isabel Dehreen
PRINT NAME

PERM NUMBER
7776370

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	1.3	2.9	4.1	5.3	6.5

1.3 1.6 1.2 1.2 1.2

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

$\frac{6.5 - 0}{5}$ $\frac{6.5}{5}$

average speed = 1.3 ft/s

$\frac{6.5}{5}$ = 1.3?

(b) When was the speed greatest?

During the interval starting at $t =$ 1 secs

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

$\frac{4.1 - 2.9}{3 - 2} = \frac{1.2}{1}$

speed $\approx$ 1.2 ft/s

Math 34A Winter 2020
Quiz #4a

No calculators

Kassie Smiggs
PRINT NAME

PERM NUMBER
8097995

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	1.3	2.9	4.1	5.3	6.5

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

$\frac{6.5 - 0}{5 - 0} = \frac{6.5}{5} = \frac{13}{10} = \frac{1.3}{1}$

average speed = 1.3 ft/s

(b) When was the speed greatest?

During the interval starting at $t =$ $1 \leq t \leq 2$ secs

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

$\frac{2.5}{2.1 - 1.9} = \frac{2.5}{1.1} =$

speed $\approx$ $\frac{2.5}{1.1}$ ft/s

Math 34A Winter 2020
Quiz #4a

No calculators

PRINT NAME Olivia Fetter

PERM NUMBER 9815226

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	1.3	2.9	4.1	5.3	6.5

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

6.5
5.3
4.1
2.9
1.3
20.1 ft / 5 sec

5 | 20.1

average speed = 4.1 ft/s

(b) When was the speed greatest?

6.5 − 5.3 = 1.2
5.3 − 4.1 = 1.2
5.3 − 4.1 = 1.2
4.1 − 2.9 = 1.2
2.9 + 1.3 = 1.6

$t = 1$ to $t = 2$

During the interval starting at $t =$ 1 secs

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

4.1 $t = 3$
−2.9 $t = 2$
1.2 ft / .5 = .6

1
2.9
+ .6
3.5

speed ≈ 3.5 ft/s

Math 34A Winter 2020
Quiz #4a

No calculators

Maya Schrau
PRINT NAME

PERM NUMBER
3347010

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	1.3	2.9	4.1	5.3	6.5

1.6 1.2 1.2 1.2

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

$f(x$

$\frac{6.5 - 0}{5 - 0} = \frac{6.5}{5}$

$1.\frac{1.5}{5}$

$\frac{f(x_2) - f(x_1)}{\Delta x}$

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

(b) When was the speed greatest?

$\frac{2.9 - 1.3}{2 - 1} = \frac{1.6}{1}$

During the interval starting at $t =$ 1 secs

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

$\frac{ft}{sec}$ $\frac{4.1 - 2.9}{3 - 2} = \frac{1.2}{1}$

1.2×2.5

60

240

300

speed $\approx$ 3 ft/s

Math 34A Winter 2020
Quiz #4a

No calculators

PRINT NAME Jessica Suave

PERM NUMBER
7892334

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	1.3	2.9	4.1	5.3	6.5

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

average speed = 1.02 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.

speed $\approx$ 1.6 ft/s

Math 34A Winter 2020
Quiz #4a

No calculators

Clay Clifton
PRINT NAME

PERM NUMBER
6099364

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	1.3	2.9	4.1	5.3	6.5

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

$\frac{(5-0)^2}{4}$

$\frac{25}{4}$

average speed = 4.2 ft/s

(b) When was the speed greatest?

During the interval starting at $t =$ 1 secs

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

$\frac{(2.5-2)^2}{0.5}$

speed $\approx$ $\frac{6.05}{0.5}$ ft/s

$\frac{1}{5.0}$

$\frac{2.5}{+2.5}$

$(2.5-2)\ (2.5-2)$

$12.25 - 5 - 5 + 4$

$\frac{4.25}{0.5}$

$0.5\overline{)6.05}$

Math 34A Winter 2020
Quiz #4a

No calculators

Marvin Salamanca
PRINT NAME

PERM NUMBER
9706342

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.

x 1.3 y 1.6 1.2 1.2 1.2

t (seconds)	0	1	2	3	4	5
x (feet)	0.0	1.3	2.9	4.1	5.3	6.5

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

$\frac{1.3-0}{1-0} = 1.3$ $\quad \frac{2.9}{-1.3}{1.6}$ $\quad \frac{4.1}{-2.9}{1.2}$

average speed = 1.3 ft/s

1.2 × 3 = 3.6; 3.6 + 1.3 = 4.9; 4.9 + 1.6 = 6.5

1.3 × 5 = 6.5

(b) When was the speed greatest?

0.6 × 2 = 1.2

1.9 + 0.6 = 3.5

5 − 2.9 = 6

During the interval starting at $t =$ 1 secs

$\frac{y_2 - y_1}{1.3 - 0}$ $\quad \frac{3.5 - 2.9}{2.5 - 2} = \frac{0.6}{0.5}$

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

$(x_1, y_1) \; (x_2, y_2)$

$(2.5, x) \; (2.9, 2)$

speed ≈ 2.4 ft/s

$\frac{x - 2.9}{2.5 -}$ $\quad 2.5 -$ $\quad 2 -$

1.2 × 2 = 2.4

$\frac{x - 2.9}{2.5 - 2}$ $\quad \frac{x - 2.9}{0.5}$ $\quad x = 0.5 + 2.9$

Math 34A Winter 2020
Quiz #4a

No calculators

Luisa Sanchez
PRINT NAME

PERM NUMBER
8258496

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	1.3	2.9	4.1	5.3	6.5

1.3 1.6 1.2 1.2 1.2

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

5 seconds = 6.5 feet

average speed = 1.3 ft/s

$0 \leq t \leq 5$ $\frac{6.5 - 0}{5 - 0}$ $\frac{6.5}{5}$ 1.3

5 | 6.5
5.0
1.50

1.3 × 5 = 6.5

(b) When was the speed greatest?

2.9 − 1.3 = 1.6 1m

3.1 − 2.9 = 1.2 1m

2.9 − 1.3 = 1.6 high

5.3 − 4.1 = 1.2 1m

6.5 − 5.3 = 1.2 1m

During the interval starting at $t =$ [1 → 2] secs

going from the first second to 2nd second

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

t = 2.5 sec

2.5 − 1.3 = 1.2

speed ≈ 1.2 ft/s

$\frac{4.1 - 2.9}{2 - 1}$ $\frac{1.2}{1}$ 1.2

1.2

Math 34A Winter 2020
Quiz #4a

No calculators

Vypnam
PRINT NAME

PERM NUMBER
7923949

Put your answer in the box provided.

TA: ☐ Garo ☐ Sam ☑ Trevor

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.

0→1 1.3 ft/s 1→2 1.6 ft/s 3→4 1.2 ft/s

t (seconds)	0	1	2	3	4	5
x (feet)	0.0	1.3	2.9	4.1	5.3	6.5

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

$\frac{6.5\text{ft}}{5\text{ secs}}$

$r = \frac{d}{t} = \frac{6.5\text{ft}}{5\text{ secs}}$

$5\overline{)6.5}$ → 1.3, 5, 1.5

average speed = 1.3 ft/s

(b) When was the speed greatest?

$\frac{2.9 - 1.3}{2-1} = 1.6$ ft/s

During the interval starting at $t =$ 1 secs

2.9
1.3
1.6

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

$\frac{4.1 - 2.9}{3-2} = 1.2$ ft/s

3 4.1
2.9
1.2

speed $\approx$ 1.2 ft/s

Math 34A Winter 2020
Quiz #4a

No calculators

Anca Turner
PRINT NAME

PERM NUMBER
8402349

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	1.3	2.9	4.1	5.3	6.5

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

average speed = 1.3 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.

speed ≈ 3.25 ft/s

Math 34A Winter 2020
Quiz #4a

No calculators

Natalie Diaz
PRINT NAME

PERM NUMBER
9440876

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	1.3	2.9	4.1	5.3	6.5

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

average speed = 1.3 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.

speed ≈ 1.2 ft/s

Math 34A Winter 2020
Quiz #4a

No calculators

David Cecilio-Hernandez
PRINT NAME

PERM NUMBER
9521092

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	1.3	2.9	4.1	5.3	6.5

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

$$5\overline{)6.5}\quad .3\quad \frac{15}{}$$

average speed = 1.3 ft/s

(b) When was the speed greatest?

During the interval starting at $t =$ 1 secs

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

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

speed $\approx$ 1 ft/s

Math 34A Winter 2020
Quiz #4a

No calculators

Brandon Jordan
PRINT NAME

PERM NUMBER
7883283

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	1.3	2.9	4.1	5.3	6.5

$f(t) = x$

1.3 | 1.6 | 1.2 | 1.2 | 1.2

1.6 → greatest speed

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

$f(5) = 6.5$ ft

$\frac{6.5}{5}$ ft/s

$5\overline{)6.5}$ → 1.3 (5, 1.5, 15, 0)

$\frac{5.3}{4.1}$ / $\frac{29}{1.2}$ / $4\overline{)5.3}$ → 1.3

average speed = 1.3 ft/s

(b) When was the speed greatest?

$t=1$ $t=2$
1.3 → 2.9
= 1.6
Greatest Rate of Change

During the interval starting at $t =$ 2 secs

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

$f(2) = 2.9$ $f(3) = 4.1$

$x \approx 1.2$

$\frac{2.9}{+0.6}$ / $\frac{3.5}{}$

speed $\approx$ 3.5 ft/s

Math 34A Winter 2020
Quiz #4a

No calculators

Alexa Lopez
PRINT NAME

PERM NUMBER
8251738

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 $0 \leq t \leq 5$ where x is measured in feet and t in seconds.

t (seconds)	0	1	2	3	4	5
x (feet)	0.0	1.3	2.9	4.1	5.3	6.5

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

speed = distance x time

average speed = 8.66 ft/s

speed : 0, 1.3, 5.8, 12.3, 21.2, 32.5

*to find average, add them all up then divide by how many there are

8.6
6 | 52.0
-48
40
-36
4

2.9 × 2 = 5.8

4.1 × 3 = 12.3

5.3 × 4 = 21.2

6.5 × 5 = 32.5

1.3 + 5.8 = 7.1 + 12.3 = 19.3 + 21.2 = 40.5 + 32.5 = 152.0

(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.

$t = 2$
$t = 3$

4.1 − 2.9 = 1.2

$\frac{4.1 - 2.9}{3 - 2} = \frac{1.2}{1} = \frac{1.2}{2} = 0.6$ ← to find at 2.5

*then add to 2.9

2.9 + 0.6 = 3.5

speed ≈ 3.5 ft/s

Math 34A Winter 2020
Quiz #4a

No calculators

Dylan Lockwood
PRINT NAME

PERM NUMBER
7952195

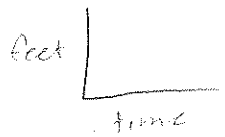
Put your answer in the box provided.

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	1.3	2.9	4.1	5.3	6.5



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

$\frac{X}{t}$ $\frac{6.5}{5}$ $\frac{\text{feet}}{\text{sec}} = \frac{X}{t} = \frac{6.5}{5} = 1.3$ average speed = 1.3 ft/s

1.3
$5\overline{)6.5}$
$5\downarrow$
15

(b) When was the speed greatest?

$t =$

During the interval starting at $t =$ 10 secs

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

speed $\approx$ 1.8 ft/s

Math 34A Winter 2020
Quiz #4a

No calculators

Shangqi Lyn
PRINT NAME

PERM NUMBER
3572468

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.

1.45

t (seconds)	0	1	2	3	4	5
x (feet)	0.0	1.3	2.9	4.1	5.3	6.5
		1.3	1.6	1.2	1.2	1.2

$$3\overline{)4.1}\quad 1.3,\ 3,\ 11$$

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

$6.5 \div 5 = 1.5$

average speed = 1.5 ft/s

(b) When was the speed greatest?

During the interval starting at $t =$ 1 secs

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

speed $\approx$ 1.4 ft/s

Math 34A Winter 2020
Quiz #4a

No calculators

PRINT NAME Luis Quintero

PERM NUMBER
9343013

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	1.3	2.9	4.1	5.3	6.5

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

$\frac{6.5-5.3}{5-4} = \frac{1.2}{1} = 1.2$

average speed = 1.3 ft/s

$\frac{1.2}{4}$ 4.8 $+1.3$ 6.1

6.1 1.6 7.7

1.2 3 3.6 1.3 4.9 $+1.6$ 6.5

$5\overline{)6.5}$ $\frac{5}{1}$ 1.3

(b) When was the speed greatest?

$\frac{1.3-0}{1-0} = \frac{1.3}{1} = 1.3$ $\frac{4.1-2.9}{3-2} = \frac{1.2}{1} = 1.2$

During the interval starting at $t =$ 1 secs

$\frac{2.9-1.3}{2-1} = \frac{1.6}{1} = 1.6$ $\frac{5.3-4.1}{4-3} = \frac{1.2}{1} = 1.2$ $\frac{6.5-5.3}{5-4} = \frac{1.2}{1} = 1.2$

$\frac{3}{4}$ 1.2

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

$\frac{4.1-2.9}{3-2} = \frac{1.2}{1} = 1.2$ ft/sec

speed $\approx$ 6 ft/s

$2\overline{)1.2}$ $.6$

Math 34A Winter 2020
Quiz #4a

No calculators

Angelina Yuan
PRINT NAME

PERM NUMBER
B3100004

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	1.3	2.9	4.1	5.3	6.5

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

$S = \frac{d}{t} = \frac{6.5}{5} = 1.3$ ft/s.

average speed = 1.3. ft/s

(b) When was the speed greatest?

0-1 = 1.3.
1-2 = 1.6.
2-3 = 1.2.
3-4 = 1.2
4-5 = 1.2

During the interval starting at $t =$ 1 secs

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

2-3 = 1.2 ft/s.
~~1.2-1.2 = 0.6 ft.~~
3-4 = 1.2.
4-5 = 1.2.
∴ constant speed → 1.2 ft/s.

speed ≈ 1.2 ft/s

Math 34A Winter 2020
Quiz #4a

No calculators

Gaby Carrasco
PRINT NAME

PERM NUMBER
9401894

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	1.3	2.9	4.1	5.3	6.5

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

$\frac{1.3-0}{1-0} = \frac{1.3}{1} = 1.3$ $\quad \frac{2.9-1.3}{2-1} = \frac{1.6}{1} = 1.6$

average speed = 1.3 ft/s

$\frac{4.1-2.9}{3-2} = \frac{1.2}{1} = 1.2$ $\quad \frac{5.3-4.1}{4-3} = \frac{1.2}{1} = 1.2$

$6.5 - 5.3 = 1.2$

(b) When was the speed greatest?

During the interval starting at $t =$ 1 secs

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

$\frac{4.1-2.9}{3-2} = \frac{1.2}{1} = 1.2$

speed $\approx$ 1.2 ft/s

Math 34A Winter 2020
Quiz #4a

No calculators

Louann Herve
PRINT NAME

PERM NUMBER
8291064

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	1.3	2.9	4.1	5.3	6.5

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

$\frac{6.5 - 0.0}{5 - 0} = \frac{6.5}{5}$

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

(b) When was the speed greatest?

(4) $\frac{6.5 - 5.3}{5 - 4} = \frac{1.2}{1}$

(3) $\frac{5.3 - 4.1}{4 - 3} = \frac{1.2}{1}$

(2) $\frac{4.1 - 2.9}{3 - 2} = \frac{1.2}{1}$

(1) $\frac{2.9 - 1.3}{2 - 1} = \frac{1.6}{1}$

(0) $\frac{1.3 - 0}{1 - 0} = \frac{1.3}{1}$

During the interval starting at $t =$ 1 secs

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

$\frac{4.1 - 2.9}{3 - 2} = 1.2$

speed $\approx$ 1.2 ft/s

Math 34A Winter 2020
Quiz #4a

No calculators

Aaliyah Zendejas
PRINT NAME

PERM NUMBER
7765753

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	1.3	2.9	4.1	5.3	6.5

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

$\frac{f(x+\Delta x)-f(x)}{\Delta x}$

6.5
-0.0
1.3
2.9
4.1
5.3

3.36
6 | 20.20
18
2.2
18
40

average speed = 3.4 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.

$\frac{4.1 - x}{3 - 2.5}$ $\quad \frac{4.1 - 2.9}{3 - 2} = \frac{1.2}{1}$

speed $\approx$ $\frac{4.1x}{.5}$ ft/s

$\frac{4.1x}{.5} = 1.2$

3.41
-2.9
1.2

Math 34A Winter 2020
Quiz #4a

No calculators

Daniel Ortiz
PRINT NAME

PERM NUMBER
8359069

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	1.3	2.9	4.1	5.3	6.5

1.3 2.6 3.9 5.2 6.5

(a) What was the average speed during the five seconds? 1.6 1.2 1.2 1.2

$\frac{6.5-0}{5-0} = \frac{6.5}{5}$

average speed = 1.3 ft/s

(b) When was the speed greatest?

During the interval starting at $t =$ 1 secs

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

$\frac{4.1-2.9}{3-2} = \frac{1.2}{1} = 1.2$

speed ≈ 1.2 ft/s

1.4 = average speed during 2.5 seconds since start

Math 34A Winter 2020
Quiz #4a

No calculators

Jasmine Garcia
PRINT NAME

PERM NUMBER
8125239

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.

1.3 1.6 1.2 1.2 1.2

t (seconds)	0	1	2	3	4	5
x (feet)	0.0	1.3	2.9	4.1	5.3	6.5

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

average speed = 1.3 ft/s

$\frac{6.5}{5}$ $5\overline{)6.5}$ $\frac{1.3}{}$ $= 1.3$

(b) When was the speed greatest?

During the interval starting at $t =$ 1 secs

$t = 1 \rightarrow t = 2$

avg speed = 1.6 ft/s

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

$t=1 \quad t=2 \quad t=3 \quad = \frac{1.2}{2} =$ 0.5 + 0.6

speed ≈ 0.7 ft/s

$0.5\overline{)3.5}$ $\frac{.7}{}$ $\frac{3.5}{0.5}$