

3 Strikes Yer Out!

1ST TRY... 3 POINTS
2ND TRY... 2 POINTS
3RD TRY... High five!

Worksheet A - 8.1



Group Members:

1. The velocity of a particle moving along the x-axis in cm/sec is given by $v(t) = 3t - t^2$ on the interval $0 \leq t \leq 4$. (No Calculator)

a) Find the displacement of the particle at $t = 4$ sec.

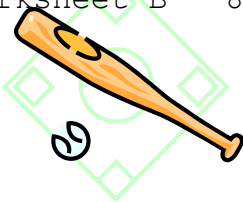
b) Find the total distance traveled from $t = 0$ sec. to $t = 4$ sec.

c) Find the final position of the particle at $t = 4$ sec if $s(0) = 3$ cm.

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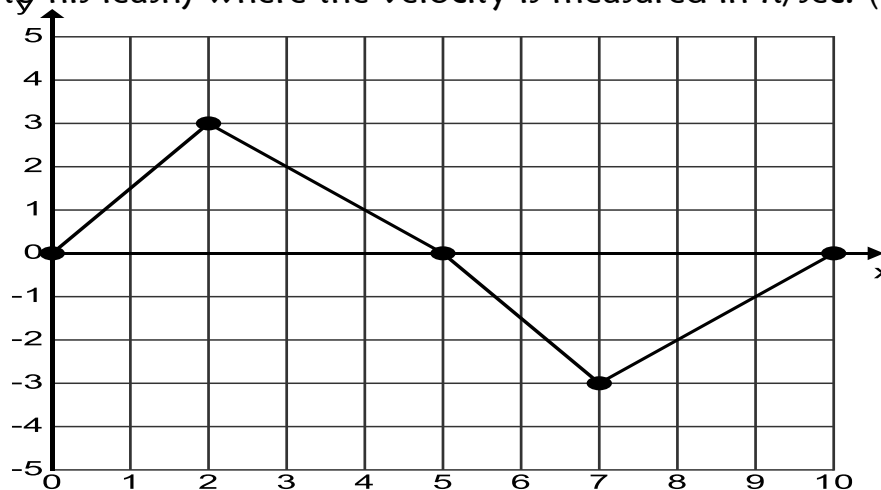
Worksheet B - 8.1



Group Members:

1. The rate at which water is pumped out of a pumping station is given by $r(t) = 5.01 + 1.02^t$ in millions of gallons per month from Jan. 1st, 2000. How much total water has been pumped out of the station on April 1st, 2000? (Calculator OK)

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2. Given the graph of the velocity of a dog moving back and forth on a rope in a yard (that is connected to his leash) where the velocity is measured in ft/sec. (No Calc.)



- a) What is the displacement of the dog in the 10 seconds?
- b) What is the total distance traveled by the dog in the 10 seconds?
- c) What is the dog's acceleration at $t = 3$ seconds? (Give correct units.)

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Worksheet C - 8.2



Group Members:

1. Find the area between the graphs of $y = x$ and $y = x^3$. (No Calculator)

2. Find the area between the graphs of $x - 2y = 3$ and $x - y^2 = 0$. (No Calculator)

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Worksheet D - 8.2



Group Members:

1. Find the area bounded by the y-axis, the parabola $y = x^2$, and the graph of $y = \cos x$.
(Calculator OK)

2. Find the area bounded by $y = x + 3$ and $y = e^x - 1$.

Names:

Worksheet	1 st Attempt – 3 points	2 nd Attempt – 2 points	3 rd Attempt – HIGH FIVE!
A			
B			
C			
D			
Total Points			

3 Strikes Yer Out Rules

- 1) Each worksheet has 2-4 problems. After you are done, bring up the one you finished for grading.
- 2) You must *work together* so that each group member is at the same pace.
Note: Hitchhiking is illegal in Calculus!!
- 3) When your **whole group** is finished with the worksheet, one person should bring **ALL** worksheets to check with me. Bring your *score sheet* with you!!
- 4) Scoring:
 - If your group gets **ALL** problems correct the first time, you will receive 3 points (to be written on the score sheet).
 - Otherwise, you will have to take your sheet, go back, and correct them....on the second time, you will receive 2 points.
 -on the third time...it's a HIGH FIVE FOR YOU!!

Good Luck!!