

Trike Wars



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Who is your predicted winner: ___

Use the rate known to calculate how far the rider is after at a given time

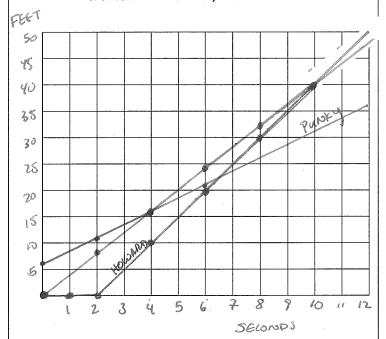
Punky Brewster					
Time (in seconds) 0 2 4 6					
Feet	6		16	21	

Bald Biker					
Time (in seconds) 0 2 4 6					
Feet	Ö	8	16	24	

Howard					
Time (in seconds)	0	2	4	6	
Feet	0	0	10	20	

Graph

Create and label axes; include units.



Rule

Write a rule to represent each rider. What does the slope and y-intercept represent:

Punky Brewster:
$$\frac{5et}{2sez}$$
 + 6 = $\frac{9}{2sez}$

Bald Biker:

waited 2 seconds, he lost

toward:

Situation

List the information you know about the race and riders

· PUNKY HAD 6 FOOT START

· HOWARD TAKES 2 SELONDS TO START SINCE HE TURNS AROUND

When are they even:
At what distance would the given rider be at the



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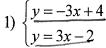
Who	Win	s the	Race:
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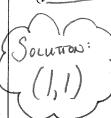
At what distance would the given rider be the winner (he/she is in the lead).

winner (he/she is in the l	ead).	same	point as another rider.	
Punky Brewster:		Punky Brewster	and Bald Biker:	
Bald Biker:		Punky Brewster	and Howard:	
Howard:	vt.	Bald Biker and F	Howard:	
	: .ee			
System of linear equations: 2 + LINDAR EQUATIONS THAT	USE THE SAME	r VARIABLES		CARTIFICATION STATES OF ST
Solution of a system of linear equation of a system of linear equation of the (X, y) The (X, y) The solution of the (x, y) The whether The	ONS: HAT MAKES BEFFE - UNES MEET.	9 AU OF THE E	QUATIONS TRUE	PASSESSED SERVICE SERV
Since all lines didn't meet there	is a solution	to this system of 3	equations with 2 variables.	
But lines did meet so there variables.	_ a solution to this	s system when just I	ooking at 2 equations with 2	•
What are the solutions?				Fullmon
Punky Brewster and Bald Biker	Punky Brewster a	and Howard	Bald Biker and Howard	
(4, 16)	(6.5, 23)	? (57)	(10, 40)	

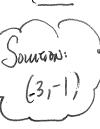
hese 3 systems above are examples of a	system and an	
		one sources
Consistent system: A LINEAR SYSTEM THAT HAS		
"THE LINES INTERSECT AT LEAST ONCE		
Independent system: "A LINEAR SYSTEM THAT HAS EXACTLY ONE SOLWTON "THE LINES INTERSETS EXACTLY ONCE		*
In Trike Wars we had lines that and there	efore we had solution for each	pair of 2
No Soutton	SAME LINES NETNITELY MANY SOLUTIONS ASSISTENT SUSTEMS:	
A UNBAR SYSTEM THAT HAS NO SOM		
And if there are Independent systems then there must also be A LINGAR SYSTEM THAT HAS INFINITELY MA	by solutions (when Graphed, its	SAME LIVE
Graphs of Equations Number of Solution 1: Intersect once O: don't priceset Intersect once O: don't priceset Intersect once Intersect once O: don't priceset Intersect once Intersect	Type of System (CONSISTENT (INTERPOSED) (NOT CONSISTENT - INCONSISTENT (NOT CONSISTENT AND DEPENDENT	

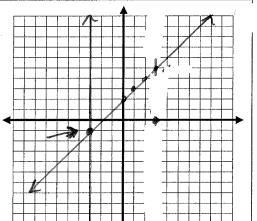
Solve the system of linear equations by graphing. Check your answer and state the type of system.











Type: OCONSISTENT

· NDEPENDENT

Check:
$$| = -3(1) + 4$$
 $| = 3(1) - 2$ $| = -3 + 4$ $| = 3 - 2$

Type: O CONSISTENT System

· DEPETUDENT System

Type:

CONSISTENT INDEPENDENT

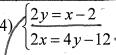
Check:

$$-1=3+2$$
 $X=-3$
 $-1=-1$ $-3=-3$

3)
$$\begin{cases} y = 2x - 3 \\ 4 = 2 \end{cases}$$

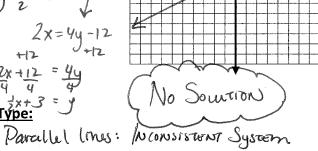
$$4x-2y=6$$

$$-4x$$



Rewrite in function form

y=1x-1



Check:

Check:

Ticket out the Door

In Trike Wars find a length the race would need to be for the Rider you picked to be the winner.

NANITERY

Sociations