

Trike Wars



Table			Graph									
Who is your predicted winner:			Create and label axes; include units.									
Use the rate known to at a given time	calculate how far t	he rider is af	ter									
Pun	ky Brewster											
Time (in seconds)												
Feet												
E	Bald Biker											
Time (in seconds)												
Feet												
	Howard		7			<u> </u>						
Time (in seconds)												
Feet												
Rule Write a rule to represent each rider. What does the slope and y-intercept represent:		Situation List the information you know about the race and riders										
una y	merceptrepresem	••										
Punky Brewster:												
Bald Biker:												
loward:												



Trike Wars



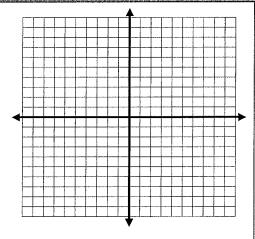
Who Wins the Race:	When are they even:
At what distance would the given rider be the	At what distance would the given rider be at the
winner (he/she is in the lead).	same point as another rider.

Punky Brewster:	Punky Brewster	and Bald Biker:
Bald Biker:	Punky Brewster (and Howard:
Howard:	Bald Biker and H	oward:
System of linear equations:		
Solution of a system of linear equations:		
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 a so variables.	olution to this system when just lo	ooking at 2 equations with 2
What are the solutions? Punky Brewster and Bald Biker Pun	ky Brewster and Howard	Bald Biker and Howard
		1 ! !

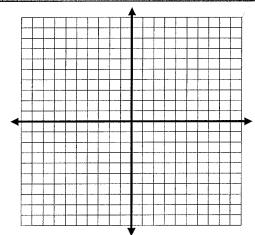
hese 3 systems above are examples of a	system and an	system.
Consistent system: Independent system:		
In Trike Wars we had lines that and lines. What else could have happened?	therefore we had solution fo	or each pair of 2
If there are Consistent systems then there must also be _		:
And if there are Independent systems then there must al	so be	:
Graphs of Equations Number of Soli	utions Type of System	

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

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



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



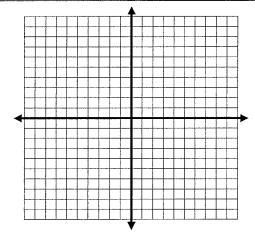
Type:

Check:

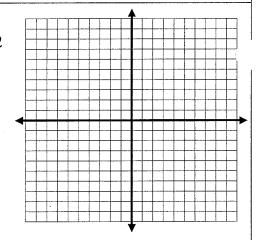
Type:

Check:

 $\begin{cases} y = 2x - 3 \\ 4x - 2y = 6 \end{cases}$



4) $\begin{cases} 2y = x - 2 \\ 2x = 4y - 12 \end{cases}$



Type:

Type:

Check:

Check:

<u>Ticket out the Door</u>

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