STUDENT A

Inverses Talk Frame

Given the function f(x) = 3x + 2

Jeana claims the inverse of f(x) is represented by the following table.

John claims the inverse of f(x) is represented by the following equation.

Kevin claims the inverse of f(x) is represented by the following graph.

Jeana's Inv	verse Claim	John's Inverse Claim	Kevin's Inverse Claim
Х	$f^{-1}(x)$	2	, , , , , , , , , , , , , , , , , , ,
8	2	$f^{-1}(x) = x - \frac{1}{3}$	5
2	0	$f^{-1}(x) = x - \frac{2}{3}$ $f^{-1}(x) = y - \frac{3}{3}$	3
-10	-4	1 3	2
5	1		-6 -5 -4 -3 -2 -1 0 1 2 3 4 5 6
	e		-2
		k	-3
			-5

For each claim, state whether it is correct or incorrect, and create an argument to defend your claim.

Jeana's claim is correct because when you plug in the number to the equation you get the correct number. John's claim statement is incorrect because when you switch x and y and solve for the new y value the equation becomes $y=1/3 \times 10/3$ not $y=x-\frac{3}{3}$. Kevin's claim statement is correct b/c his graph matches deana's chart.

STUDENT BB

Inverses Talk Frame

Given the function f(x) = 3x + 2

3(3)+2

Jeana claims the inverse of f(x) is represented by the following table. John claims the inverse of f(x) is represented by the following equation.

Kevin claims the inverse of f(x) is represented by the following graph.

2	1-2	1	+ >	
U.	-	1	12	_
	.0		۷.	

		. 0
Neana's Inverse Claim	John's Inverse Claim	Kevin's Inverse Claim
$f^{-1}(x)$	2	0,-2
8 2	$f^{-1}(x) = x - \frac{2}{3}$	1,5
2 0	(A)	1-1,-1
-10 -4		
5 1		-6 -5 -4 -3 -2 -10 1 2 3 4 5 6 x
-		2,0
		* 5,
		-5

For each claim, state whether it is correct or incorrect, and create an argument to defend your claim.

- Kevin is correct because when I graphed the inverse using the function his graphwas the same as mine,
- Jeanna is correct because the xis the normall function which is on the left and on the right there is the inverse and all of the pointage correct and match up with the graph points,
- (1) John is correct, because when you plug points Into his claim they do come out correct.

\wedge	7
1	5
0	2
2	8
4	114

STUDENT C

Inverses Talk Frame

Given the function f(x) = 3x + 2

Jeana claims the inverse of f(x) is represented by the following table.

John claims the inverse of f(x) is represented by the following equation.

Kevin claims the inverse of f(x) is represented by the following graph.

(0,2)(1,5)

Jeana's Inverse Claim	John's Inverse Claim	Kevin's Inverse Claim
$f^{-1}(x)$	2	
8 2	$f^{-1}(x) = x - \frac{2}{3}$	5
2 0		3
-10 -4		34
5 1 V		-6 -5 -4 -3 -2 -1 0 1 2 3 4 5 6 x
		-1 -2
€		-3
Ye5	No	-5 -6 V
1		Y65

For each claim, state whether it is correct or incorrect, and create an argument to defend your

claim.

Jeannas Claim 13 Correct because When I plug 2 in the original equation y=8. Same follows the other numbers

John's inverse mosmed he cause when I plug the melse of (91) which 15 (2,0) int 8- (X)=X-== I do no+

heving inverse Claim is correct because when the original line is plotted I took the point (1,5) then switched (5,1). Then checked for that point on get mording results hering graph and 14 WOS Fhere. After Checking other point his groop movered

<u> 1e</u>

STUDENT D

Given the function f(x) = 3x + 2

Jeana claims the inverse of f(x) is represented by the following table.

John claims the inverse of f(x) is represented by the following equation.

Kevin claims the inverse of f(x) is represented by the following graph.

Tur-iout Tur-orat			
Jeana's Inverse Claim		John's Inverse Claim	
x	$f^{-1}(x)$	2	
8	2	$f^{-1}(x) = x - \frac{2}{3}$	
2	0 .	he aid not.	
-10	-4	divide X by 3	
5	1	us among 4	
3.5+2=.2			
5-147	T 12 -7		

Kevi	Kevin's Inverse Claim			
	.p	· ·		
	6			
	1 1 1 1 1			
	 5 			
	╎ ╡ ╏╸╏╸╏╸╏╸	 		
	 3 	1-1-1		
	1 2	<u> </u>		
T. 1 .	T'			
-6 -5 -4 -3 -2 -	10 1 2 3	4 5 6 x		
	9 -1	- 		
	-2	 		
	1-3			
	1-4			
	┥- <u>5</u> ┼ ┼ ┼	 		
 	 	 		
	1 7 1 1 1			

For each claim, state whether it is correct or incorrect, and create an argument to defend your claim.

X

F(x) = 3x + 2

Jenna's is correct

John is

incorrect



(1,5) (5.) 310)+2=2

when you put X . Value in the function 84 dia match up with the Oudinal Edrapous

$$3(a)+a=8$$

 $(a, 8)$ $(8, a)$

$$3(-4)+2=-10$$

 $(-4),-10)$ $(-107+)$

$$\frac{8-2}{3} = 2 \times \frac{-2}{3} = \frac{34}{3}$$

$$\frac{8-2}{3} = 2 \times \frac{-2}{3} = \frac{34}{3}$$

$$\frac{8-2}{3} = \frac{34}{3} = \frac{34}{3}$$

$$\frac{-10-3}{3} = -4 = (-10, -4)$$