Please do not write on this sheet PS I pg 59 problem 16

Student 1					
Line	Statement	Comment			
1	6(x+4)=3x-2	original problem			
2	x+4=3x-2-6	MISTAKE. Student tried to get rid of the 6 by subtracting			
		it from b	oth sides. This is NOT ok since the 6 is		
		multiplyi	ng the (x+4)		
Student 2					
Line	Statement	Comme	nt		
1	6(x+4)=3x-2	original problem			
2	6x+4=3x-2	MISTAKE. Student used the distributive property			
		incorrec	tly. $6(x+4)$ should expand to $6x + 6(4)$ or $6x + 24$		
Correct solution					
Line	Statement		Comment		
1	6(x+4)=3x-2		original problem		
2	6x+24=3x-2		Use distributive property		
3	6x - 3x + 24 = 3x - 3x - 2		Subtract 3x from both sides		
4	3x + 24 = -2				
5	3x + 24 - 24 = -2 - 24		Subtract 24 from both side		
6	3x = -26				
7	3x / 3 = -26 / 3		Divide both sides by 3		
8	x = -26/3		Final answer is –26/3, or -8 2/3, or –8.6 (repeating)		

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Student 1					
Line	Statement	Comment			
1	58.5 = 3.5x – 6	original problem			
2	58.5 – 6 = 3.5x	MISTAKE: Student should have ADDED 6 to both sides to undo the			
		-6; instead the student subracted 6			
Student 2					
Line	Statement		omment		
1	58.5 = 3.5x - 6		iginal problem		
2	58.5 + 6 = 3.5x-6+6		prrect: student is adding 6 to both sides to undo the		
		su	btraction		
3	64.5 = 3.5x		prrect: student added the 6 correctly to both sides		
4	64.5 / 3.5 = 3.5x / 3.5		prrect: student is dividing both sides by 3.5 to undo the		
			ultplication		
5	1.84 ≈ x M		ISTAKE: Student divided 64.5 by 3.5 incorrectly.		
Correct solution (starting from line 5 of student 2)					
Line	Statement		Comment		
5	18.43 ≈ x		This is the correct division (rounded to the nearest 100th		
			place)		