Substitution Method

Group Members:
1. ____________________
2. ____________________
3. ____________________
4. ____________________

Group Manager: Person 1. Read the directions and make sure the group follows them.

Give each person in the group their own sheet. Everyone works on the problems themselves.
However if you are not sure what to do, please go ahead and ask a teammate for help.

When you have finished your individual work, come back together as a group, and write your answers on this group sheet. Take turns having each person write out completely (i.e. show all the steps) the answer to a problem. Person 4 will go first and do problem 1. Then Person 3 will go next and do problem 2. And so on.

1. $\int \sin(3x^3) \, dx$

2. $\int (7x^2 + 3x + 2)^5 (14x + 3) \, dx$

3. $\int \cos(x^2) \, x \, dx$

4. $\int \sqrt{3x + 2} \, dx$

5. Challenge Problem: (For the whole group to work together on). $\int \frac{x}{\sqrt{3x^2 + 1}} \, dx$
Name: ____________________________

1. $\int \sin(3x)3 \, dx$

2. $\int (7x^2 + 3x + 2)^5(14x + 3) \, dx$

3. $\int \cos(x^2) \, x \, dx$

4. $\int \sqrt{3x + 2} \, dx$

5. Challenge Problem: (For the whole group to work together on). $\int \frac{x}{(5-3x^2)^3} \, dx$