Error Analysis – Solving Equations

Directions: Carlos solved the following equations but was having some trouble. In each of the following problems, Carlos made a mistake. See if you can help Carlos fix his mistakes. Examine the problem. When you find the mistake, circle it. Then, in the space provided, explain why it is a mistake, and solve the equation correctly.

Carlos' Work	Explain: What mistake did he make?	Corrected Solution
3x + 2x - 6 = 24		
-2x -2x		
x - 6 = 24		
+6 +6		
x = 30		
-2x + 4 = 12		
-4 -4		
$\underline{-2x} = \underline{8}$		
22		
x = 4		
4x - 3 = 17		
+3 +3		
4x = 20		
-4 -4		
× = 16		
3(2x-4) = 8		
6x -1 = 8		
+1 +1		
$\underline{6x} = \underline{9}$		
6 6		
x = 3/2 Reflect: Which of these mictakes have	you made before? Why do you think you	

Reflect: Which of these mistakes have you made before? Why do you think you have made those mistakes? How can you avoid these common mistakes?