∐lulumath

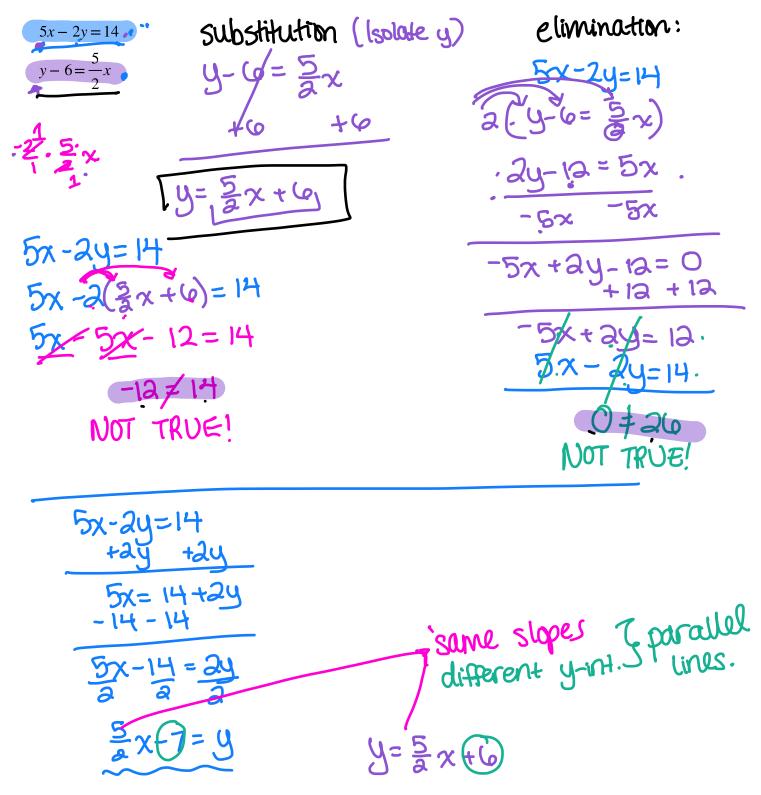
Special Cases of Systems of Equations

Video Notes

<u>Video Link</u>

Special Cases of Systems of Equations Solve the following system of equations: 8x-64=24 4x - 3y = 128x-6(4x-4)=24 8x - 6v = 244x-34=12 🗶 + २४ = २४ 4x = 12 + 3y12 - 1224=24 true stint 4x - 12 = 3y(\frac{4}{3} \chi - 4 \right) \frac{4}{3} \frac{4}{3} + \ elimination $(4x-3y=12) \longrightarrow -8x+6y=-24$ $8x-6y=24 \longrightarrow +8x-6y=24$ - 2 (4x-3y="12) LCM of 4,8 = 8 true stmt

Since both equations in the system are <u>equivalent</u>. they intersect <u>evenywhere</u> along the line. . only point on the line is a solution, making this system have <u>infinite</u> solutions. Solve the following system of equations:



-> Since the lines are <u>parallel</u>, they will <u>never</u> intersect. .: this system has no solution.