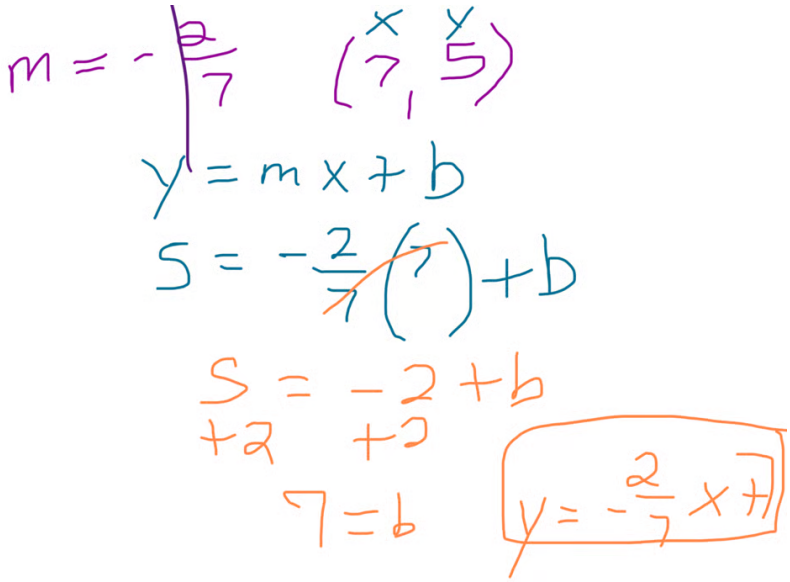
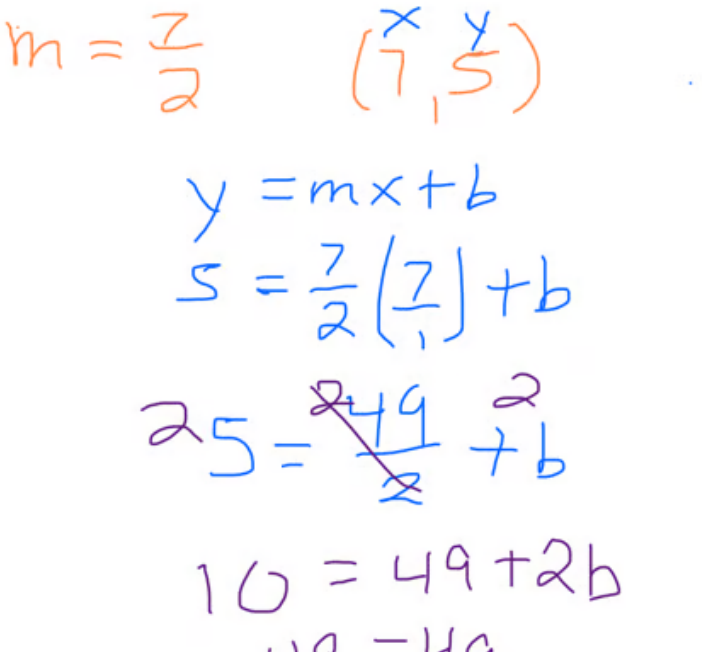
Algebra /
Writing equations of lines parallel and perpendicular to a given line...

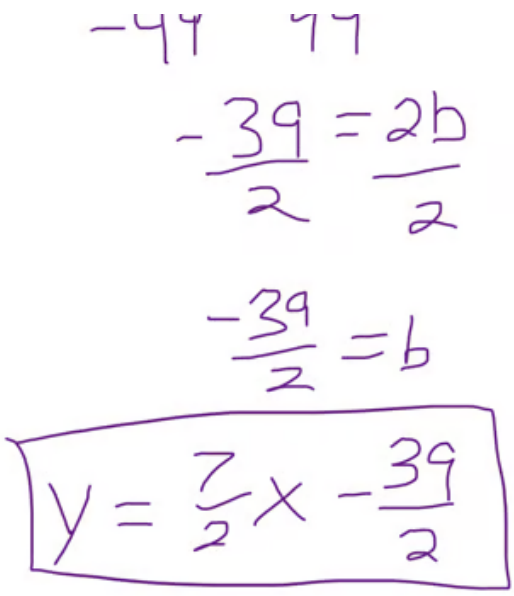
y=(-2/7)x+4

Parallel passes through (7,5)
Parallel means the same slope as the original.



Perpendicular passes through (7, 5)
Perpendicular means the slope is opposite reciprocal or “flip it & switch the sign”




-44 44
$-\frac{39}{2} = \frac{2b}{2}$
$-\frac{39}{2} = b$
$y = \frac{7}{2}x - \frac{39}{2}$