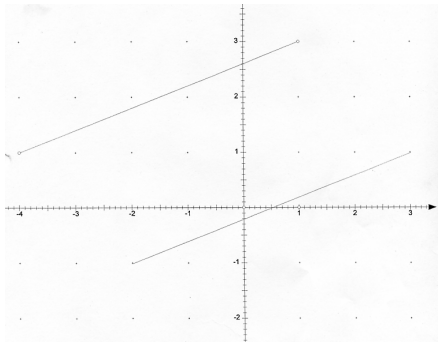
3.4 Slopes of Parallel Lines

Calculate the slope of each line



Parallel Lines: Lines that have the same slope

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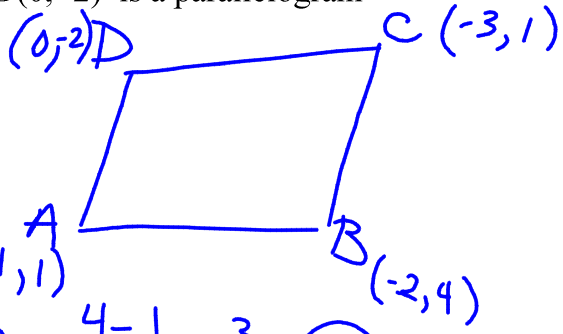
Determine whether the quadrilateral with vertices A(1, 1) B(-2, 4) C(-3, 1) D(0, -2) is a parallelogram



$m\,AB = \frac{4-1}{-2-1} = \frac{3}{-3} = -1$

$m\,DC = \frac{1-(-2)}{-3-0} = \frac{3}{-3} = -1$

$m\,DA = \frac{1-(-2)}{1-0} = \frac{3}{1} = 3$

$m\,BC = \frac{4-1}{-2-(-3)} = \frac{3}{1} = 3$

Yes it's a parallelogram because opposite sides have the same slope.

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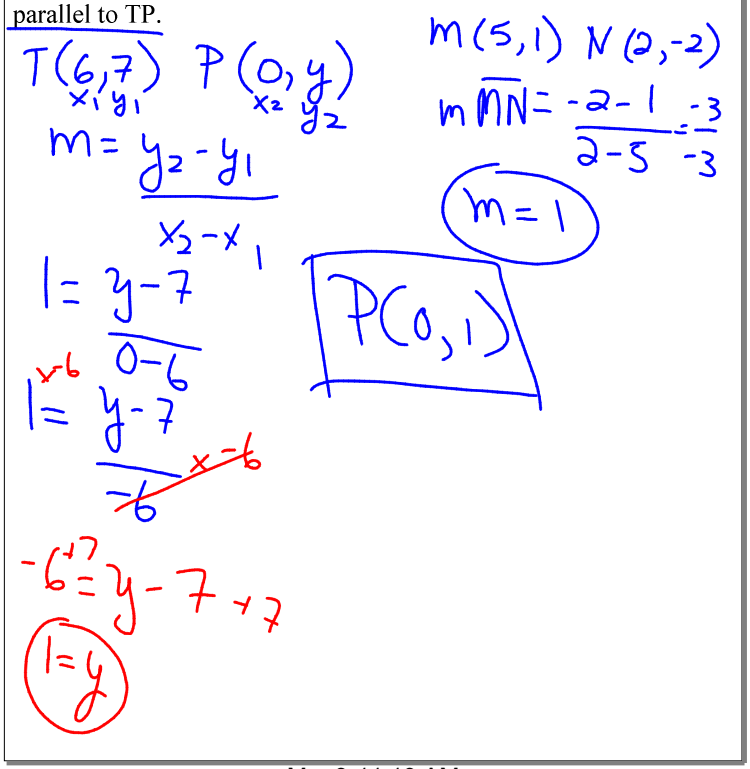
The points M(5, 1) N(2, -2) and T(6, 7) are given. Determine the coordinates of a point P on the y-axis so that line segment MN is parallel to TP.



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Assignment: Pg. 177

1, 3a, 7, 9, 13

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