

TEST Monday October 15

Topics:

- Distance
- Midpoint
- Division point
- Equation of a line (finding slope, x and y intercepts, converting general to functional form)
- Parallel lines
- Perpendicular lines
- Systems of equations (finding the solution using both COMPARISON and ELIMINATION method)

****Create Memory Aid****
(No sport cards allowed)

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Competency 1 Test
 (one per term)

Thursday October 18

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Distance

Calculate the distance between the two points, A (1, 2) and B (8, 3). Give your answer correct to 2 decimal places if necessary.

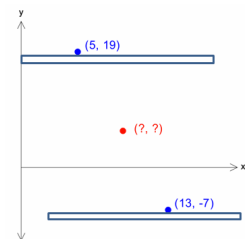
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Midpoint

Tyler has two shelves in his room but needs to put up a third since he has run out of space for all his books. The first shelf was installed much higher than the second, and Tyler wants to put the third shelf exactly halfway between the first two. The locations of the shelves are plotted on the Cartesian plane below and are set up in such a way that if connected, the three locations would create a straight line.

If the locations of the first two shelves are (5, 19) and (13, -7), where should Tyler install the third shelf?

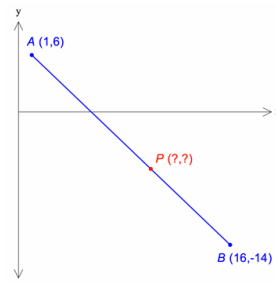


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Division Point

In line segment AB with endpoints A(1,6) and B(16,-14), the point P divides AB in a ratio of 3:2 from point A. Determine the coordinates of point P.



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Equation of a line

Find the rule of the linear function in slope-intercept form using the given points: (-1, -6) and (9, 4). Also find the slope, y-intercept (initial value) and x-intercept

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General to Functional (standard) form

Determine the slope of the following linear equation:
 $3x + 5y - 15 = 0$

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Parallel and Perpendicular lines

Find the equation of the line that passes through the point $A(-12, 24)$ and is parallel to the line $2x - 3y - 21 = 0$.

Find the equation of the line that is perpendicular to the line $y = -\frac{4}{3}x - 7$ and passes through the point $A(4, 12)$.

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Systems of Equations

Find the solution to the following system of equations using the comparison method.

$$y = x - 2$$

$$y = 3x + 4$$

Find the solution to the following system of linear equations by using the elimination method.

$$-8x + 2y = -12$$

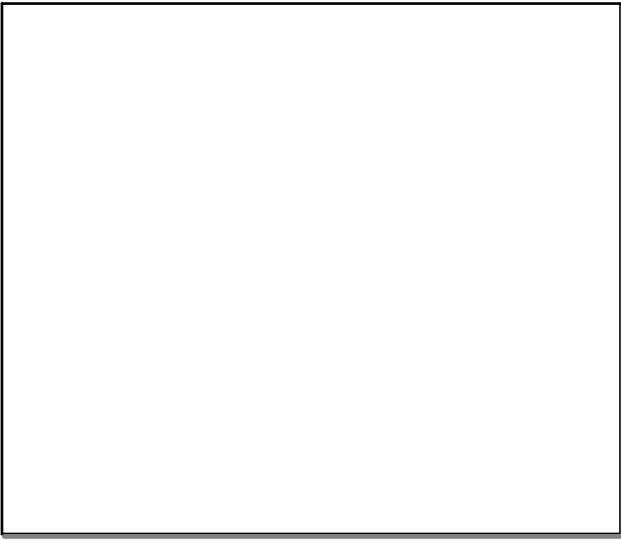
$$5x - 3y = -3$$

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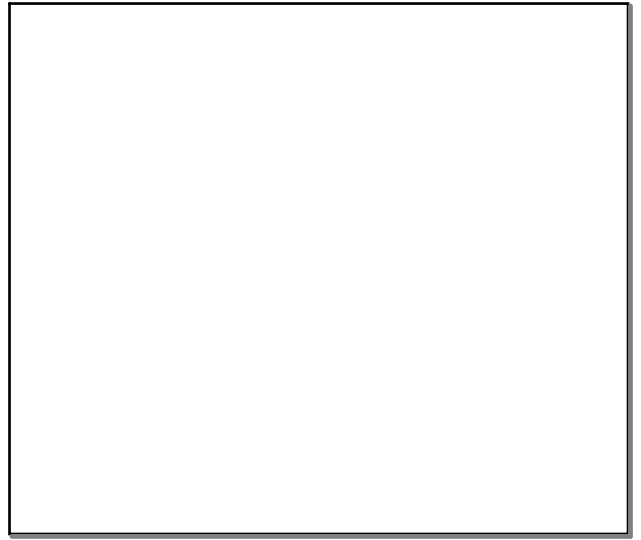
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