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distance between two points x 1 y 1 and x 2 y 2 all that you need to do is use the coordinates of these ordered pairs and apply the formula pictured below the distance formula is distance x 2 x 1 2 y 2 y 1 2 below is a diagram of the distance formula applied to a picture of a line segment

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from the problem the unknown distance is represented with the variable d d 65 2 5 to find d all we have to do is multiply 65 and 2 5 65 2 5 equals 162 5 d 162 5

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or m if t time is taken v final velocity and u initial velocity are provided then the acceleration formula

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initial position and s is the position some time t later if you prefer you may write the equation using s the change in position displacement or distance as the situation merits v 2 v 0 2 2a s 3

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examples are of equations that reduce to linear equations example 3 solve the equation 23 4y 5y 4 9 10y 2y 3 we expand both sides to obtain 23 20y 2 16y 9 20y 2 30y

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