

Fast Five – Warm up & Challenge Given a parallelogram whose vertices are defined by the co-ordinates A(-1,4), B(2,-2), C(6,3), and D(x,y). Determine the co-ordinates of point D Determine the co-ordinates of the intersection point of the diagonals. Determine which point(s) are equidistant from K(-2,2) and M(3,6)

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Height (cm)	2.3	3.2	4.2	5.6	7.2	10	12.7	14
Distance (cm)	53	60	70	76	93	131	143	150
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(B) Linear Equations

- We can determine the equations of linear equations if:
- (a) we know 2 points that the line passes through
 - □ Ex. A(-3,5) & B(3,7)

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(b) if we know the slope of the line and a point through which the line passes Ex. If slope = -1/2 and P(-3,6)

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(C) Slope Interpretation – Rate of Change

- An ABSOLUTELY vital thing to understand about slope is that the slope of the segment between any 2 points represents the AVERAGE RATE OF CHANGE between those 2 points
- Ex. Determine the average rate of change between A(1,1) and B(4,9)

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(D) Forms of Linear Equations

- Linear equations can be written in many forms:
- (A) Slope-intercept form → ex. In the linear equation y = 4x - 5, the slope of the line is 4 while the y-intercept is at (0,-5)
- So the general form looks like y = mx + b where m is the slope and b is the y-intercept Math 2 Honors - Santowski

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