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## Questions

### Question

2.0 points possible (graded, results hidden)

Your friend Faria draws a line in Zone-0 from  $(x_0, y_0)$  to  $(x_1, y_1)$  using the DDA algorithm, and her algorithm rounds every integer to the nearest integer below it, for example: pixel (3,4) is drawn when the line goes through (3, 4.6). A set of pixels,  $D$ , is chosen by this algorithm to draw the line. For better performance, you use the midpoint line algorithm to draw the same line from  $(x_0, y_0)$  to  $(x_1, y_1)$ . A set of pixels,  $M$ , is chosen by your midpoint line algorithm.

Choose all correct statements about  $M$  and  $D$

☐

$M$  and  $D$  must be the same set.



The points in  $M$  will coincide with or be above the points in  $D$ .



The points in  $M$  will coincide with or be below the points in  $D$ .

☐ It cannot be said without further information.☐ M will be a larger set than D.

You have used 1 of 1 attempt

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## Question

2.0 points possible (graded, results hidden)

A line is drawn from **(-3, -2)** to **(6, 6)** using the DDA algorithm. How many points will be used to draw this line?

**Answer:**

You have used 1 of 1 attempt

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## Question

2 points possible (graded, results hidden)

A line is drawn from **(16, 8)** to **(32,16)** using the midpoint line algorithm. How many times will we choose the pixel to the northeast (NE) of the current pixel?

**Answer:**

You have used 1 of 1 attempt

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**i** Answer submitted.

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## Section 2

4 points possible (graded, results hidden)  
Imagine a point  $P_0(x_0, y_0) = (-68, -85)$  and another point  $P_1(x_1, y_1) = (66, 8)$ . Use the **DDA** algorithm to determine **4 pixels after  $P_0$**

$x$	$y$
<input type="text" value="-67"/>	<input type="text" value="-84"/>
<input type="text" value="-66"/>	<input type="text" value="-84"/>
<input type="text" value="-65"/>	<input type="text" value="-83"/>
<input type="text"/>	<input type="text"/>

Submit

You have used 1 of 1 attempt

**i** Answer submitted.

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