Can you draw the following diagrams without lifting your pencil from the paper and without retracing any lines?

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Can you draw the following diagrams without lifting your pencil from the paper and without retracing any lines?

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Condition A: Diagram can be drawn without lifting your pencil from the paper and without retracing any lines.

Condition B: Diagram satisfies Condition A with the same start and end point.

Q1: Which diagrams satisfy Condition A?

Q2: Which diagrams that satisfy Condition B?

Q3: What do the diagrams that satisfy Condition A have in common? What do the diagrams that satisfy Condition B have in common? In other words, is there a simple condition that enables you to predict, in advance, whether or not a given diagram satisfies Condition A or Condition B?
Can you draw the following diagrams without lifting your pencil from the paper and without retracing any lines?

![Diagram 1](image1)

![Diagram 2](image2)

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**Math 181 E1 - Worksheet 1.1.4**

Monday, October 10, 2014

Can you draw the following diagrams without lifting your pencil from the paper and without retracing any lines?

![Diagram 3](image3)

![Diagram 4](image4)
| Condition A: | Diagram can be drawn without lifting your pencil from the paper and without retracing any lines. |
| Condition B: | Diagram satisfies Condition A with the same start and end point. |

**Q1:** Which diagrams satisfy Condition A?

**Q2:** Which diagrams that satisfy Condition B?

What do the diagrams that satisfy Condition A have in common? What do the diagrams that satisfy Condition B have in common? In other words, is there a simple condition that enables you to predict, in advance, whether or not a given diagram satisfies Condition A or Condition B?