**Homework – Midsegments** Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

is the midsegment of . Find the value of x.

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|  |  |  |

In , , , and Complete each statement.

|  |  |  |
| --- | --- | --- |
| 1. \_\_\_\_\_ | 1. \_\_\_\_\_ |  |
| 1. \_\_\_\_\_ |  |  |
|  |  |  |

Prior Knowledge and Making Connections – Use the diagram to complete the statements and provide a reason (angle relationship).

|  |  |
| --- | --- |
| 1. because:   \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |  |
| 1. because:   \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |  |
| 1. because:   \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |  |
| 1. because:   \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |  |

Use , where A, B, and C are midpoints of the sides.

|  |  |
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| 1. If and, what is AB? |  |
| 1. If and , what is HB? |  |
| 1. If and , what is GH? |  |

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| |  | | --- | | 1. is the midsegment of which triangle? | | 1. What are the midpoints of and ? | | 1. What is the length of ? | |