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| **Notes – Midsegments** | **Name:** |  |
| **Standard:** | **Hour:** |

**Objective:** I know what a midsegment of a triangle is and its properties related to parallel segments and length.

**Definition**

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| A \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ connects the midpoints of 2 sides of a polygon. Every triangle has 3 midsegments. |

**Examples**

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|  | 1. Name the 3 midsegments | 1. List the congruent segments |

**Theorem**

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| A midsegment of a triangle is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ to the third side and \_\_\_\_\_\_\_\_\_\_\_ the length of the third side. |

**Examples**

Use the diagram in the theorem box. Assume F to be the midpoint of segment AC.

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| 1. Write the 3 parallel statements using each midsegment. | | 1. Complete each congruence statement. | |
| is the midsegment of . Find the value of x. | | | |
|  |  | |  |

**Practice**

Use the diagram for the next 4 problems. D, E, and F are midpoints.

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|  | 1. If and , find DE |
| 1. If and , find EF. |
| 1. If and , find HE. | 1. If and , find EF. |