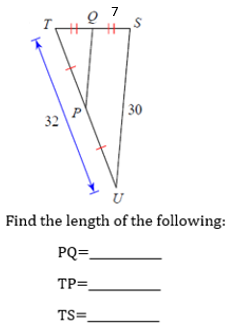
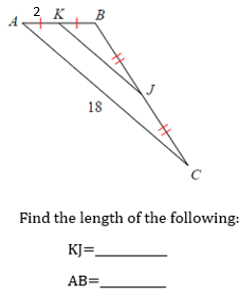
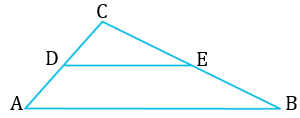
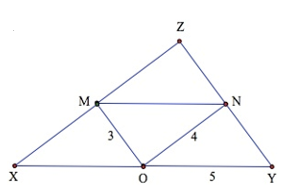
**Homework 4.7 – Mid-Segment Theorem Day 1 – Honors** Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

3. The following figure shows with side lengths , , and Segment is constructed to be parallel to and to originate at point *D*, the midpoint of . In the spaces below, enter the lengths for the requested segments.

1. Find the following: 2. Find the following:

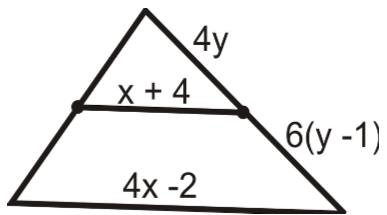


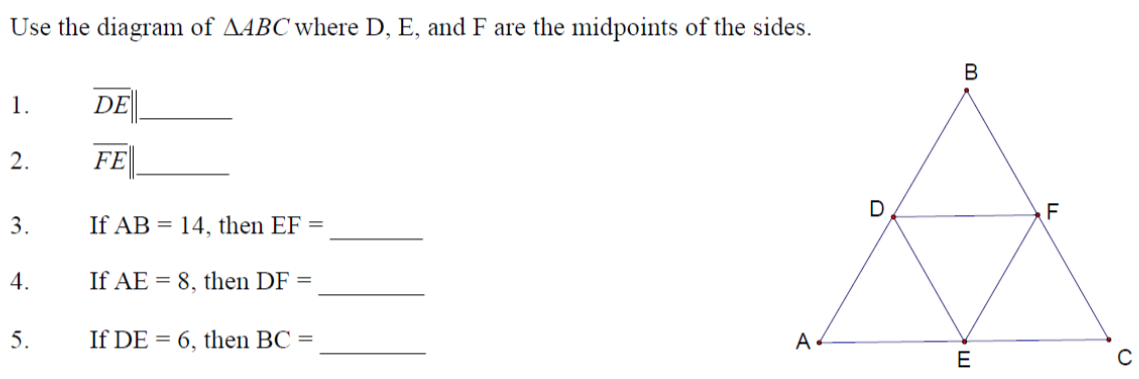




4. Find the length of the following if points M, N, and O are the midpoints of the sides.

5. Given that there is a mid-segment, solve for and solve for .



6. Use the diagram of where D, E, and F are the midpoints of the sides.

**Facts: , , ,**

Solve for : Solve for :