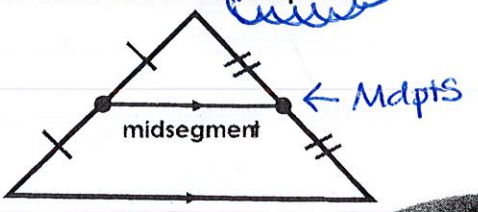
Triangle Midsegment

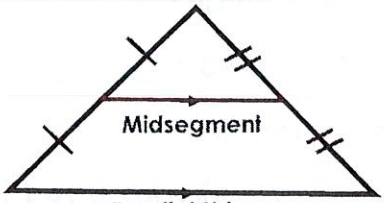
1. Parallel to one side of the triangle
2. Is half the length of the parallel side
3. Connects to the midpoints



Triangle Midsegment Theorem

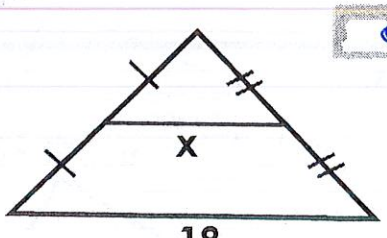
EQUATION

$$MIDSEGMENT = \frac{1}{2} Parallel\ Side$$



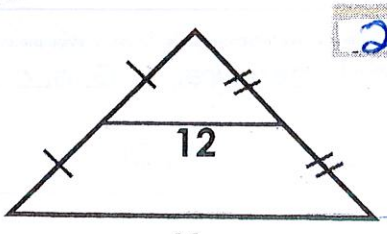
2(MdSeg) = Parallel Side

1. Solve for x.



9

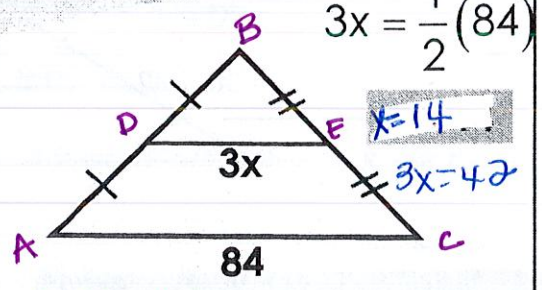
2. Solve for y.



24

3. Solve for x.

$3x = \frac{1}{2}(84)$



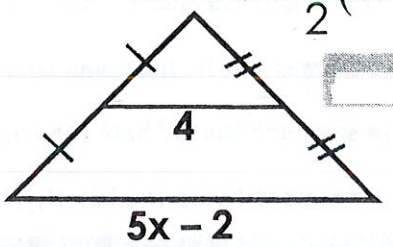
x = 14

3x = 42

Find DE. 42

4. Solve for x.

$4 = \frac{1}{2}(5x - 2)$



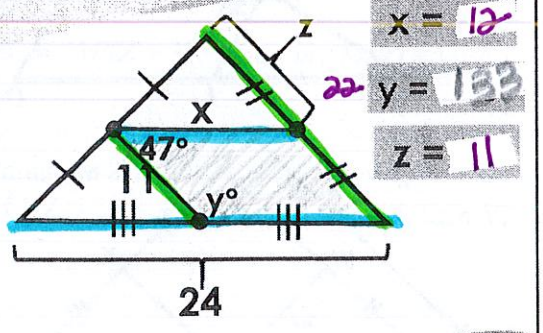
$2(4) = 5x - 2$

$8 = 5x - 2$

$10 = 5x$

$2 = x$

5. Solve for the missing variables.



x = 12

y = 133

z = 11

Consecutive ∠'s are Supplementary

$47 + y = 180$