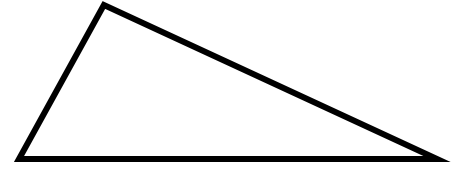
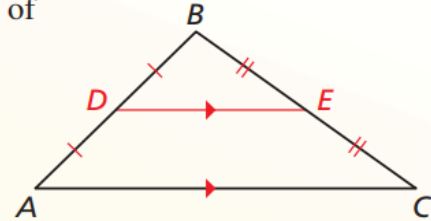


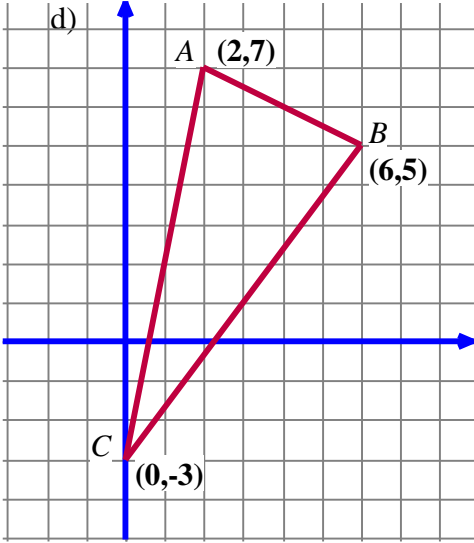
Definition: A _____ of a triangle is a segment that connects the _____ of two sides of the triangle. Every triangle has _____ midsegments.



Theorem: The segment connecting the midpoints of two sides of a triangle is parallel to the third side and is half as long as that side.



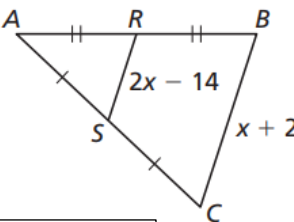
Ex 1:

a) Find the midpoint of \overline{AB} and label it D . $D(\quad)$	b) Find the midpoint of \overline{AC} and label it E . $E(\quad)$	c) Draw midsegment \overline{DE} .	d) 
e) Find the slope of \overline{DE}	f) Find the slope of \overline{CB}		
g) Use the distance formula to find DE :		h) Use the distance formula to find BC :	

Ex 2:

Ex 3:

Ex 4:

Find CD . <div style="border: 1px solid black; display: inline-block; padding: 5px; margin-top: 10px;">$CD =$</div>	If $CA = 15$, what is SB and SR ? <div style="border: 1px solid black; display: inline-block; padding: 5px; margin-top: 10px;">$SB =$</div> <div style="border: 1px solid black; display: inline-block; padding: 5px; margin-top: 10px;">$SR =$</div>	 <div style="text-align: right; margin-top: 10px;">$BC = 2(SR)$</div>	<div style="border: 1px solid black; display: inline-block; padding: 5px; margin-top: 10px;">$BC =$</div> <div style="border: 1px solid black; display: inline-block; padding: 5px; margin-top: 10px;">$RS =$</div>
