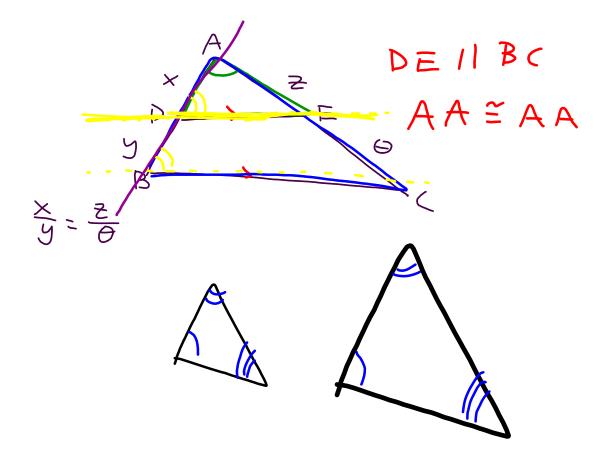
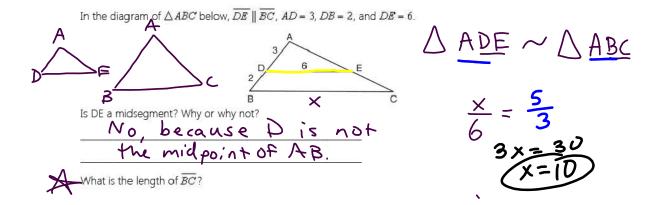
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A

In the diagram of $\triangle ABC$ shown below, $\overline{DE} \parallel \overline{BC}$.

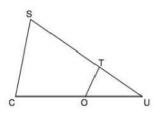


If AB = 10, AD = 8, and AE = 12.

a) What is the length of \overline{AC} ?

b) What is the length of \overline{EC} ?

In $\triangle SCU$ shown below, points T and O are on \overline{SU} and \overline{CU} , respectively. Segment OT is drawn so that $\angle C \cong \angle OTU$.

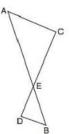


If TU = 4, OU = 5, and OC = 7, what is the length of \overline{ST} ?

- (1) 5.6 (2) 8.75
- (3) 11 (4) 15

In $\triangle ABC$, point D is on \overline{AB} , and point E is on \overline{BC} such that $\overline{DE} \parallel \overline{AC}$. If DB = 2, DA = 7, and DE = 3, what is the length of \overline{AC} ? (Draw the diagram first!)

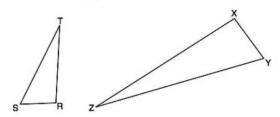
As shown in the diagram below, \overline{AB} and \overline{CD} intersect at E, and $\overline{AC} \parallel \overline{BD}$.



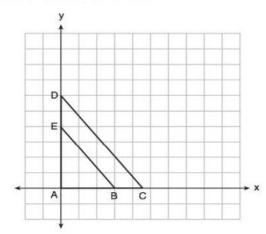
Given $\triangle AEC \sim \triangle BED$, which equation is true?

- (1) $\frac{CE}{DE} = \frac{EB}{EA}$
- (3) $\frac{EC}{AE} = \frac{BE}{ED}$
- (2) $\frac{AE}{BE} = \frac{AC}{BD}$
- $(4) \frac{ED}{EC} = \frac{AC}{BL}$

Triangles RST and XYZ are drawn below. If RS = 6, ST = 14, XY = 9, YZ = 21, and $\angle S \cong \angle Y$, is $\triangle RST$ similar to $\triangle XYZ^p$ Justify your answer.



In the diagram below, $\triangle ABE$ is the image of $\triangle ACD$ after a dilation centered at the origin. The coordinates of the vertices are A(0,0), B(3,0), C(4.5,0), D(0,6), and E(0,4).



The ratio of the lengths of \overline{BE} to \overline{CD} is

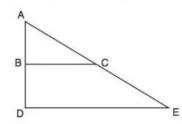
(1) $\frac{2}{3}$

(3) $\frac{3}{4}$

(2) $\frac{3}{2}$

 $(4) \frac{4}{3}$

The image of $\triangle ABC$ after a dilation of scale factor k centered at point A is $\triangle ADE$, as shown in the diagram below.



Which statement is always true?

- (1) 2AB = AD
- (3) AC = CE
- (2) $\overline{AD} \perp \overline{DE}$
- (4) BC | DE