Exercises - Similar Triangles and Proportional Parts
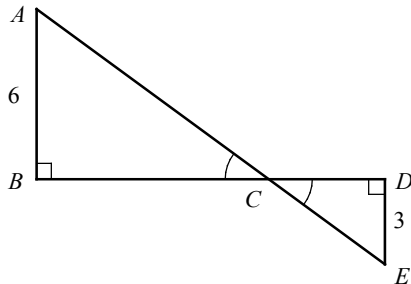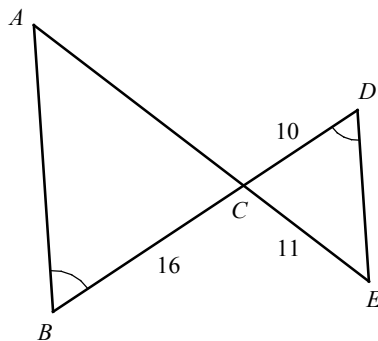

1

In the figure above, if $AB = 6$, $DE = 3$, and $BD = 12$, what is the length of AE ?

A) 12

B) $9\sqrt{2}$
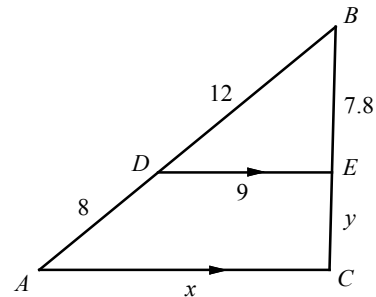
C) $8\sqrt{3}$

D) 15

2

Note: Figure not drawn to scale.

In the figure above, $\angle B \cong \angle D$. If $BC = 16$, $CD = 10$, and $CE = 11$, what is the length of AE ?

A) 16.8

B) 17.2

C) 17.6

D) 18.4

Questions 3 and 4 refer to the following information.

In the figure above, $\overline{DE} \parallel \overline{AC}$.

3

What is the value of x ?

A) 12.5

B) 15

C) 16.5

D) 18

4

What is the value of y ?

A) 5.2

B) 5.6

C) 6.0

D) 6.4