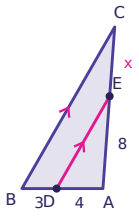
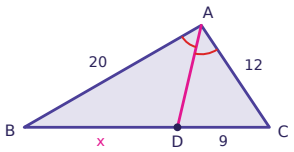
Triangle Proportionality & Angle Bisector Theorems · 1

DE ∥ BC. Find x.



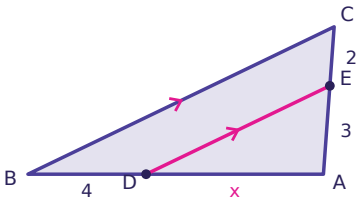
Triangle Proportionality & Angle Bisector Theorems · 2

AD bisects ∠BAC. Find x.



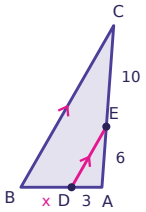
Triangle Proportionality & Angle Bisector Theorems · 3

DE ∥ BC. Find x.



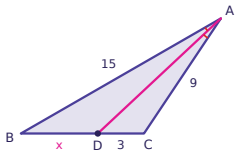
Triangle Proportionality & Angle Bisector Theorems · 4

DE ∥ BC. Find x.



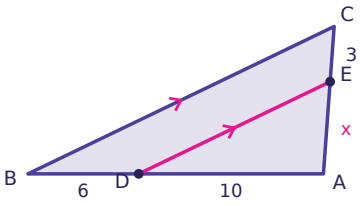
Triangle Proportionality & Angle Bisector Theorems · 5

AD bisects ∠BAC. Find x.



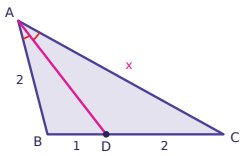
Triangle Proportionality & Angle Bisector Theorems · 6

DE ∥ BC. Find x.



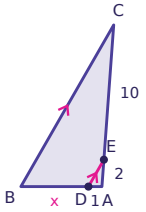
Triangle Proportionality & Angle Bisector Theorems · 7

AD bisects ∠BAC. Find x.



Triangle Proportionality & Angle Bisector Theorems · 8

DE ∥ BC. Find x.



Triangle Proportionality & Angle Bisector Theorems · 2

ANSWER

15

Triangle Proportionality & Angle Bisector Theorems · 1

ANSWER

6

Triangle Proportionality & Angle Bisector Theorems · 4

ANSWER

5

Triangle Proportionality & Angle Bisector Theorems · 3

ANSWER

6

Triangle Proportionality & Angle Bisector Theorems · 6

ANSWER

5

Triangle Proportionality & Angle Bisector Theorems · 5

ANSWER

5

Triangle Proportionality & Angle Bisector Theorems · 8

ANSWER

5

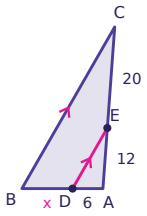
Triangle Proportionality & Angle Bisector Theorems · 7

ANSWER

4

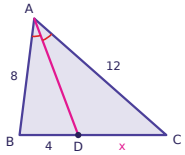
Triangle Proportionality & Angle Bisector Theorems · 9

DE ∥ BC. Find x.



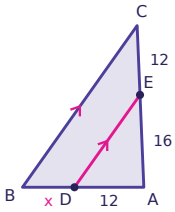
Triangle Proportionality & Angle Bisector Theorems · 10

AD bisects ∠BAC. Find x.



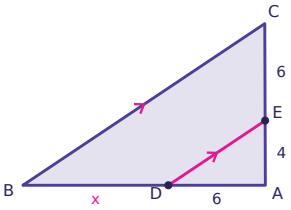
Triangle Proportionality & Angle Bisector Theorems · 11

DE ∥ BC. Find x.



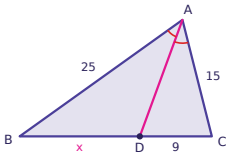
Triangle Proportionality & Angle Bisector Theorems · 12

DE ∥ BC. Find x.



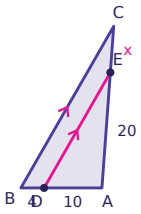
Triangle Proportionality & Angle Bisector Theorems · 13

AD bisects ∠BAC. Find x.



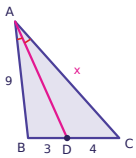
Triangle Proportionality & Angle Bisector Theorems · 14

DE ∥ BC. Find x.



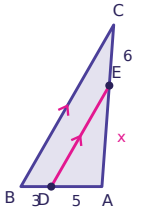
Triangle Proportionality & Angle Bisector Theorems · 15

AD bisects ∠BAC. Find x.



Triangle Proportionality & Angle Bisector Theorems · 16

DE ∥ BC. Find x.



Triangle Proportionality & Angle Bisector Theorems · 10

ANSWER

6

Triangle Proportionality & Angle Bisector Theorems · 9

ANSWER

10

Triangle Proportionality & Angle Bisector Theorems · 12

ANSWER

9

Triangle Proportionality & Angle Bisector Theorems · 11

ANSWER

9

Triangle Proportionality & Angle Bisector Theorems · 14

ANSWER

8

Triangle Proportionality & Angle Bisector Theorems · 13

ANSWER

15

Triangle Proportionality & Angle Bisector Theorems · 16

ANSWER

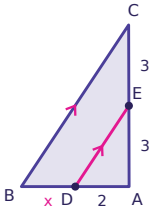
10

Triangle Proportionality & Angle Bisector Theorems · 15

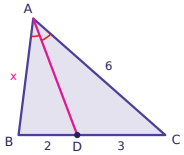
ANSWER

12

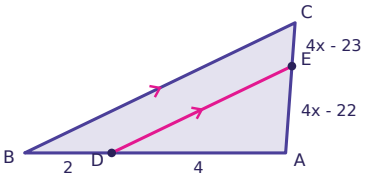
DE ∥ BC. Find x.



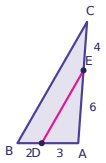
AD bisects ∠BAC. Find x.



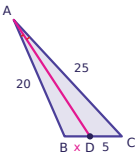
DE ∥ BC. AE = 4x - 22 and EC = 4x - 23. Find x.



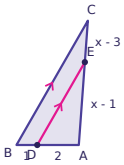
Use the lengths in the diagram. Is DE parallel to BC? Answer yes or no.



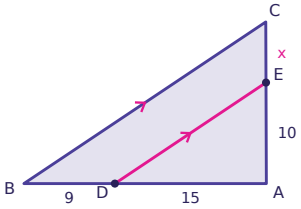
AD bisects ∠BAC. Find x.



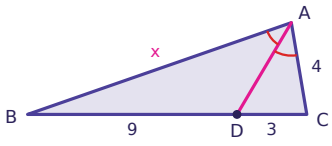
DE ∥ BC. AE = x - 1 and EC = x - 3. Find x.



DE ∥ BC. Find x.



AD bisects ∠BAC. Find x.



Triangle Proportionality & Angle Bisector Theorems · 18

ANSWER

4

Triangle Proportionality & Angle Bisector Theorems · 17

ANSWER

2

Triangle Proportionality & Angle Bisector Theorems · 20

ANSWER

yes

Triangle Proportionality & Angle Bisector Theorems · 19

ANSWER

6

Triangle Proportionality & Angle Bisector Theorems · 22

ANSWER

5

Triangle Proportionality & Angle Bisector Theorems · 21

ANSWER

4

Triangle Proportionality & Angle Bisector Theorems · 24

ANSWER

12

Triangle Proportionality & Angle Bisector Theorems · 23

ANSWER

6