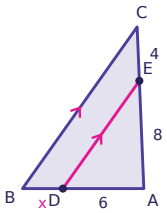
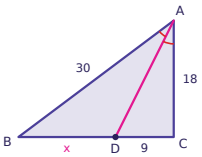
Triangle Proportionality & Angle Bisector Theorems · 1

DE ∥ BC. Find x.



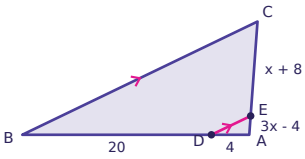
Triangle Proportionality & Angle Bisector Theorems · 2

AD bisects ∠BAC. Find x.



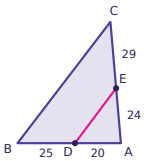
Triangle Proportionality & Angle Bisector Theorems · 3

DE ∥ BC. AE = 3x - 4 and EC = x + 8. Find x.



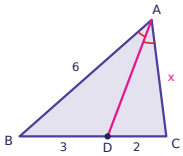
Triangle Proportionality & Angle Bisector Theorems · 4

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



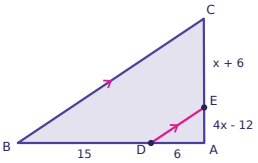
Triangle Proportionality & Angle Bisector Theorems · 5

AD bisects ∠BAC. Find x.



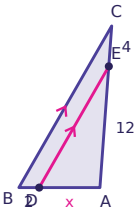
Triangle Proportionality & Angle Bisector Theorems · 6

DE ∥ BC. AE = 4x - 12 and EC = x + 6. Find x.



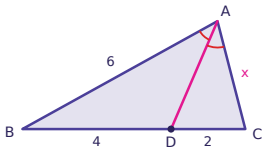
Triangle Proportionality & Angle Bisector Theorems · 7

DE ∥ BC. Find x.



Triangle Proportionality & Angle Bisector Theorems · 8

AD bisects ∠BAC. Find x.



Triangle Proportionality & Angle Bisector Theorems · 2

ANSWER

15

Triangle Proportionality & Angle Bisector Theorems · 1

ANSWER

3

Triangle Proportionality & Angle Bisector Theorems · 4

ANSWER

no

Triangle Proportionality & Angle Bisector Theorems · 3

ANSWER

2

Triangle Proportionality & Angle Bisector Theorems · 6

ANSWER

4

Triangle Proportionality & Angle Bisector Theorems · 5

ANSWER

4

Triangle Proportionality & Angle Bisector Theorems · 8

ANSWER

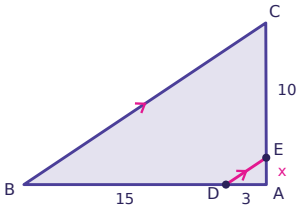
3

Triangle Proportionality & Angle Bisector Theorems · 7

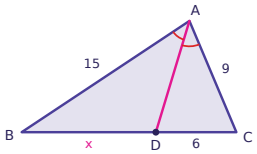
ANSWER

6

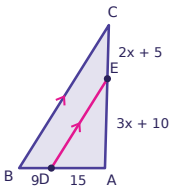
DE ∥ BC. Find x.



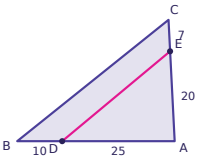
AD bisects ∠BAC. Find x.



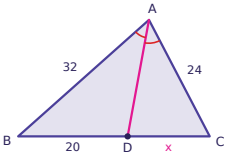
DE ∥ BC. AE = 3x + 10 and EC = 2x + 5. Find x.



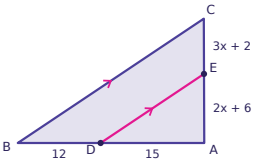
Use the lengths in the diagram. Is DE parallel to BC? Answer yes or no.



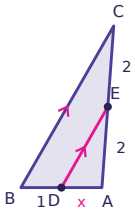
AD bisects ∠BAC. Find x.



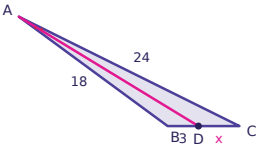
DE ∥ BC. AE = 2x + 6 and EC = 3x + 2. Find x.



DE ∥ BC. Find x.



AD bisects ∠BAC. Find x.



Triangle Proportionality & Angle Bisector Theorems · 10

ANSWER

10

Triangle Proportionality & Angle Bisector Theorems · 9

ANSWER

2

Triangle Proportionality & Angle Bisector Theorems · 12

ANSWER

no

Triangle Proportionality & Angle Bisector Theorems · 11

ANSWER

5

Triangle Proportionality & Angle Bisector Theorems · 14

ANSWER

2

Triangle Proportionality & Angle Bisector Theorems · 13

ANSWER

15

Triangle Proportionality & Angle Bisector Theorems · 16

ANSWER

4

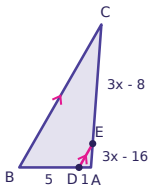
Triangle Proportionality & Angle Bisector Theorems · 15

ANSWER

1

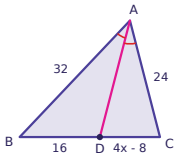
Triangle Proportionality & Angle Bisector Theorems · 17

DE ∥ BC. AE = 3x - 16 and EC = 3x - 8. Find x.



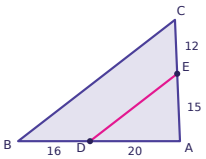
Triangle Proportionality & Angle Bisector Theorems · 18

AD bisects ∠BAC. DC = 4x - 8. Find x.



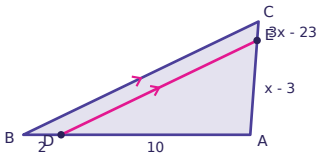
Triangle Proportionality & Angle Bisector Theorems · 19

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



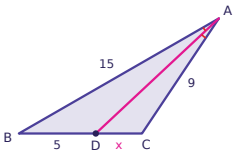
Triangle Proportionality & Angle Bisector Theorems · 20

DE ∥ BC. AE = x - 3 and EC = 3x - 23. Find x.



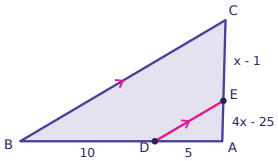
Triangle Proportionality & Angle Bisector Theorems · 21

AD bisects ∠BAC. Find x.



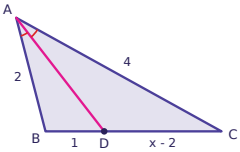
Triangle Proportionality & Angle Bisector Theorems · 22

DE ∥ BC. AE = 4x - 25 and EC = x - 1. Find x.



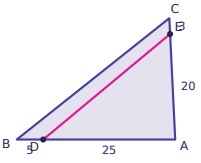
Triangle Proportionality & Angle Bisector Theorems · 23

AD bisects ∠BAC. DC = x - 2. Find x.



Triangle Proportionality & Angle Bisector Theorems · 24

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



Triangle Proportionality & Angle Bisector Theorems · 18

ANSWER

5

Triangle Proportionality & Angle Bisector Theorems · 17

ANSWER

6

Triangle Proportionality & Angle Bisector Theorems · 20

ANSWER

8

Triangle Proportionality & Angle Bisector Theorems · 19

ANSWER

yes

Triangle Proportionality & Angle Bisector Theorems · 22

ANSWER

7

Triangle Proportionality & Angle Bisector Theorems · 21

ANSWER

3

Triangle Proportionality & Angle Bisector Theorems · 24

ANSWER

no

Triangle Proportionality & Angle Bisector Theorems · 23

ANSWER

4