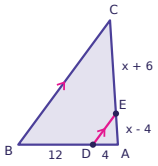
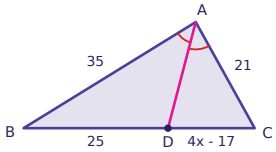
Triangle Proportionality & Angle Bisector Theorems · 1

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



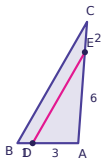
Triangle Proportionality & Angle Bisector Theorems · 2

AD bisects ∠BAC. DC = 4x - 17. Find x.



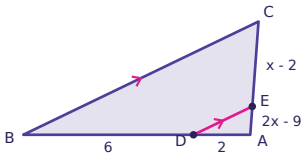
Triangle Proportionality & Angle Bisector Theorems · 3

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



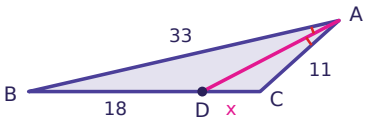
Triangle Proportionality & Angle Bisector Theorems · 4

DE ∥ BC. AE = 2x - 9 and EC = x - 2. Find x.



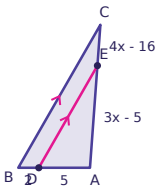
Triangle Proportionality & Angle Bisector Theorems · 5

AD bisects ∠BAC. Find x.



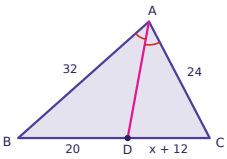
Triangle Proportionality & Angle Bisector Theorems · 6

DE ∥ BC. AE = 3x - 5 and EC = 4x - 16. Find x.



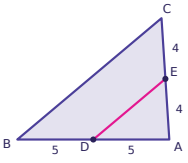
Triangle Proportionality & Angle Bisector Theorems · 7

AD bisects ∠BAC. DC = x + 12. Find x.



Triangle Proportionality & Angle Bisector Theorems · 8

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



Triangle Proportionality & Angle Bisector Theorems · 2

ANSWER

8

Triangle Proportionality & Angle Bisector Theorems · 1

ANSWER

9

Triangle Proportionality & Angle Bisector Theorems · 4

ANSWER

5

Triangle Proportionality & Angle Bisector Theorems · 3

ANSWER

yes

Triangle Proportionality & Angle Bisector Theorems · 6

ANSWER

5

Triangle Proportionality & Angle Bisector Theorems · 5

ANSWER

6

Triangle Proportionality & Angle Bisector Theorems · 8

ANSWER

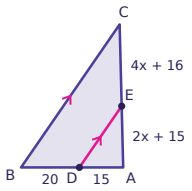
yes

Triangle Proportionality & Angle Bisector Theorems · 7

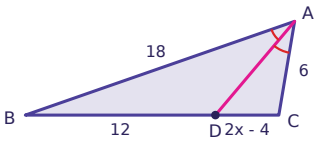
ANSWER

3

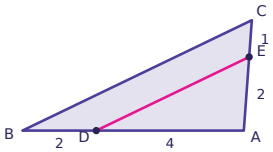
DE ∥ BC. AE = 2x + 15 and EC = 4x + 16. Find x.



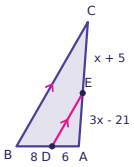
AD bisects ∠BAC. DC = 2x - 4. Find x.



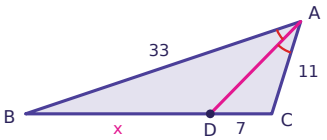
Use the lengths in the diagram. Is DE parallel to BC? Answer yes or no.



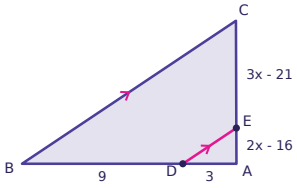
DE ∥ BC. AE = 3x - 21 and EC = x + 5. Find x.



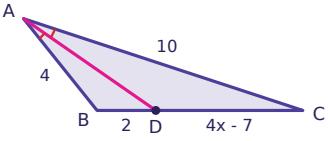
AD bisects ∠BAC. Find x.



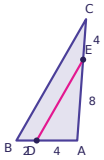
DE ∥ BC. AE = 2x - 16 and EC = 3x - 21. Find x.



AD bisects ∠BAC. DC = 4x - 7. Find x.



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



Triangle Proportionality & Angle Bisector Theorems · 10

ANSWER

4

Triangle Proportionality & Angle Bisector Theorems · 9

ANSWER

3

Triangle Proportionality & Angle Bisector Theorems · 12

ANSWER

11

Triangle Proportionality & Angle Bisector Theorems · 11

ANSWER

yes

Triangle Proportionality & Angle Bisector Theorems · 14

ANSWER

9

Triangle Proportionality & Angle Bisector Theorems · 13

ANSWER

21

Triangle Proportionality & Angle Bisector Theorems · 16

ANSWER

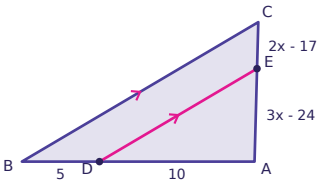
yes

Triangle Proportionality & Angle Bisector Theorems · 15

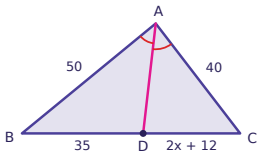
ANSWER

3

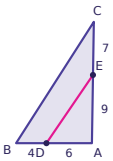
DE ∥ BC. AE = 3x - 24 and EC = 2x - 17. Find x.



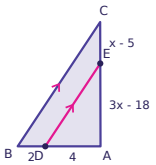
AD bisects ∠BAC. DC = 2x + 12. Find x.



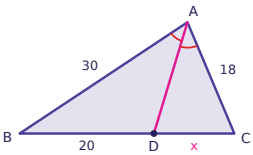
Use the lengths in the diagram. Is DE parallel to BC? Answer yes or no.



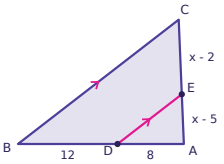
DE ∥ BC. AE = 3x - 18 and EC = x - 5. Find x.



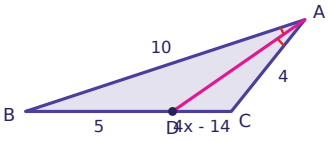
AD bisects ∠BAC. Find x.



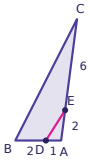
DE ∥ BC. AE = x - 5 and EC = x - 2. Find x.



AD bisects ∠BAC. DC = 4x - 14. Find x.



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



Triangle Proportionality & Angle Bisector Theorems · 18

ANSWER

8

Triangle Proportionality & Angle Bisector Theorems · 17

ANSWER

10

Triangle Proportionality & Angle Bisector Theorems · 20

ANSWER

8

Triangle Proportionality & Angle Bisector Theorems · 19

ANSWER

no

Triangle Proportionality & Angle Bisector Theorems · 22

ANSWER

11

Triangle Proportionality & Angle Bisector Theorems · 21

ANSWER

12

Triangle Proportionality & Angle Bisector Theorems · 24

ANSWER

no

Triangle Proportionality & Angle Bisector Theorems · 23

ANSWER

4