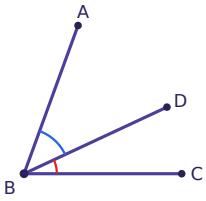
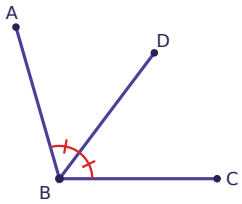
Angle Addition & Angle Bisectors · 1

m∠ABD = (7x + 17)°, m∠DBC = (6x + 1)°, and m∠ABC = 70°. Find x.



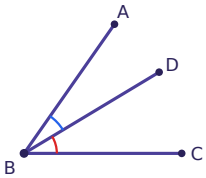
Angle Addition & Angle Bisectors · 2

BD bisects ∠ABC. m∠ABD = (x + 42)° and m∠DBC = (2x + 31)°. Find x.



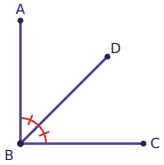
Angle Addition & Angle Bisectors · 3

m∠ABD = (4x - 24)°, m∠DBC = (5x - 29)°, and m∠ABC = 55°. Find x.



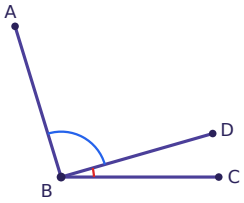
Angle Addition & Angle Bisectors · 4

BD bisects ∠ABC. m∠ABD = (2x + 21)° and m∠DBC = (5x - 15)°. Find x.



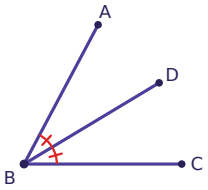
Angle Addition & Angle Bisectors · 5

m∠ABD = (7x + 28)°, m∠DBC = (3x - 11)°, and m∠ABC = 107°. Find x.



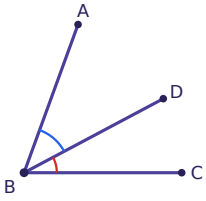
Angle Addition & Angle Bisectors · 6

BD bisects ∠ABC. m∠ABD = (4x - 17)° and m∠DBC = (3x - 5)°. Find x.



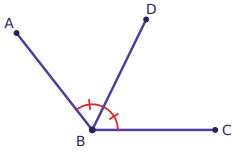
Angle Addition & Angle Bisectors · 7

m∠ABD = (2x + 18)°, m∠DBC = (4x - 20)°, and m∠ABC = 70°. Find x.



Angle Addition & Angle Bisectors · 8

BD bisects ∠ABC. m∠ABD = (4x + 44)° and m∠DBC = (6x + 34)°. Find x.



Angle Addition & Angle Bisectors · 2

ANSWER

11

Angle Addition & Angle Bisectors · 1

ANSWER

4

Angle Addition & Angle Bisectors · 4

ANSWER

12

Angle Addition & Angle Bisectors · 3

ANSWER

12

Angle Addition & Angle Bisectors · 6

ANSWER

12

Angle Addition & Angle Bisectors · 5

ANSWER

9

Angle Addition & Angle Bisectors · 8

ANSWER

5

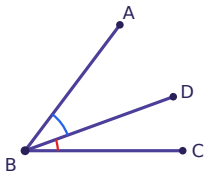
Angle Addition & Angle Bisectors · 7

ANSWER

12

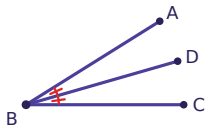
Angle Addition & Angle Bisectors · 9

m∠ABD = (6x + 3)°, m∠DBC = (2x + 10)°, and m∠ABC = 53°. Find x.



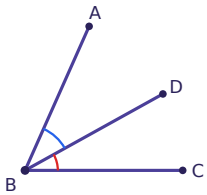
Angle Addition & Angle Bisectors · 10

BD bisects ∠ABC. m∠ABD = (x + 13)° and m∠DBC = (6x - 2)°. Find x.



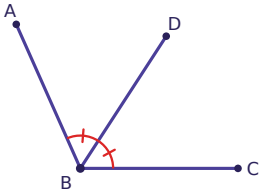
Angle Addition & Angle Bisectors · 11

m∠ABD = (2x + 25)°, m∠DBC = (x + 23)°, and m∠ABC = 66°. Find x.



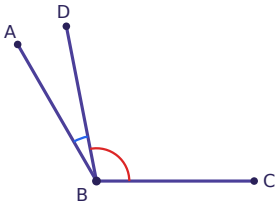
Angle Addition & Angle Bisectors · 12

BD bisects ∠ABC. m∠ABD = (7x + 8)° and m∠DBC = (3x + 36)°. Find x.



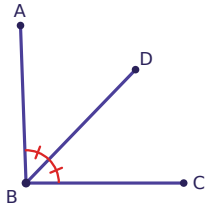
Angle Addition & Angle Bisectors · 13

m∠ABD = (7x - 9)°, m∠DBC = (3x + 89)°, and m∠ABC = 120°. Find x.



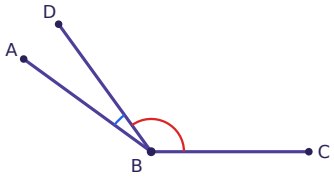
Angle Addition & Angle Bisectors · 14

BD bisects ∠ABC. m∠ABD = (7x - 24)° and m∠DBC = (4x + 6)°. Find x.



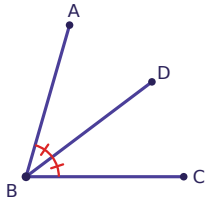
Angle Addition & Angle Bisectors · 15

m∠ABD = (7x - 24)°, m∠DBC = (11x + 60)°, and m∠ABC = 144°. Find x.



Angle Addition & Angle Bisectors · 16

BD bisects ∠ABC. m∠ABD = (6x - 5)° and m∠DBC = (x + 30)°. Find x.



Angle Addition & Angle Bisectors · 10

ANSWER

3

Angle Addition & Angle Bisectors · 9

ANSWER

5

Angle Addition & Angle Bisectors · 12

ANSWER

7

Angle Addition & Angle Bisectors · 11

ANSWER

6

Angle Addition & Angle Bisectors · 14

ANSWER

10

Angle Addition & Angle Bisectors · 13

ANSWER

4

Angle Addition & Angle Bisectors · 16

ANSWER

7

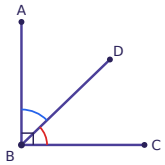
Angle Addition & Angle Bisectors · 15

ANSWER

6

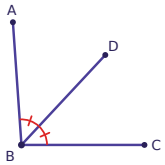
Angle Addition & Angle Bisectors · 17

$m\angle ABD = (5x - 19)°$, $m\angle DBC = (4x - 8)°$, and $\angle ABC$ is a right angle. Find $m\angle ABD$.



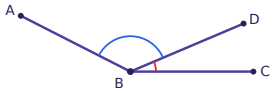
Angle Addition & Angle Bisectors · 18

BD bisects $\angle ABC$. $m\angle ABD = (2x + 25)°$ and $m\angle DBC = (x + 36)°$. Find $m\angle ABC$.



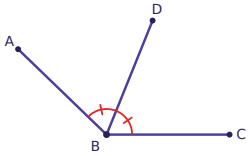
Angle Addition & Angle Bisectors · 19

$m\angle ABD = (14x + 88)°$, $m\angle DBC = (3x + 14)°$, and $m\angle ABC = 153°$. Find $m\angle ABD$.



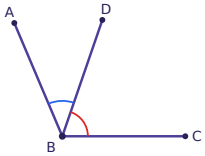
Angle Addition & Angle Bisectors · 20

BD bisects $\angle ABC$. $m\angle ABD = (6x + 44)°$ and $m\angle ABC = (14x + 80)°$. Find $m\angle DBC$.



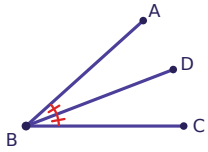
Angle Addition & Angle Bisectors · 21

$m\angle ABD = (3x + 27)°$, $m\angle DBC = (6x + 41)°$, and $m\angle ABC = 113°$. Find $m\angle DBC$.



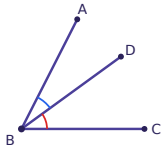
Angle Addition & Angle Bisectors · 22

BD bisects $\angle ABC$. $m\angle ABD = (2x + 7)°$ and $m\angle ABC = 6x°$. Find $m\angle DBC$.



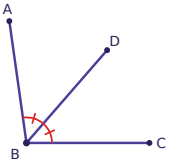
Angle Addition & Angle Bisectors · 23

$m\angle ABD = (7x - 29)°$, $m\angle DBC = (6x - 12)°$, and $m\angle ABC = 63°$. Find $m\angle DBC$.



Angle Addition & Angle Bisectors · 24

BD bisects $\angle ABC$. $m\angle ABD = (5x + 14)°$ and $m\angle ABC = (3x + 77)°$. Find $m\angle DBC$.



Angle Addition & Angle Bisectors · 18

ANSWER

94°

Angle Addition & Angle Bisectors · 17

ANSWER

46°

Angle Addition & Angle Bisectors · 20

ANSWER

68°

Angle Addition & Angle Bisectors · 19

ANSWER

130°

Angle Addition & Angle Bisectors · 22

ANSWER

21°

Angle Addition & Angle Bisectors · 21

ANSWER

71°

Angle Addition & Angle Bisectors · 24

ANSWER

49°

Angle Addition & Angle Bisectors · 23

ANSWER

36°