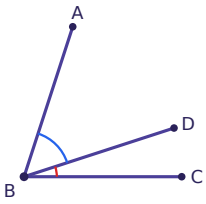
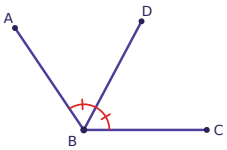
Angle Addition & Angle Bisectors · 1

m∠ABD = (7x - 2)°, m∠DBC = (2x + 2)°, and m∠ABC = 72°. Find m∠ABD.



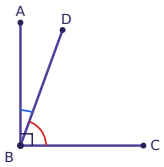
Angle Addition & Angle Bisectors · 2

BD bisects ∠ABC. m∠ABD = (5x + 7)° and m∠DBC = (6x - 4)°. Find m∠ABC.



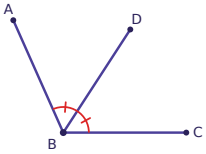
Angle Addition & Angle Bisectors · 3

m∠ABD = (2x - 6)°, m∠DBC = (5x + 5)°, and ∠ABC is a right angle. Find m∠DBC.



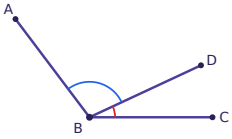
Angle Addition & Angle Bisectors · 4

BD bisects ∠ABC. m∠ABD = (4x + 45)° and m∠DBC = (5x + 42)°. Find m∠ABC.



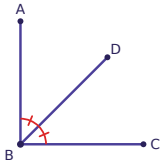
Angle Addition & Angle Bisectors · 5

m∠ABD = (5x + 27)°, m∠DBC = (3x - 20)°, and m∠ABC = 127°. Find m∠ABD.



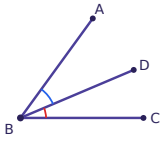
Angle Addition & Angle Bisectors · 6

BD bisects ∠ABC. m∠ABD = (6x - 15)° and m∠ABC = (5x + 40)°. Find m∠DBC.



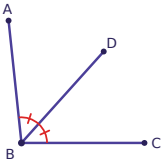
Angle Addition & Angle Bisectors · 7

m∠ABD = (x + 18)°, m∠DBC = (4x - 29)°, and m∠ABC = 54°. Find m∠DBC.



Angle Addition & Angle Bisectors · 8

BD bisects ∠ABC. m∠ABD = (4x + 36)° and m∠DBC = (x + 45)°. Find m∠ABC.



Angle Addition & Angle Bisectors · 2

ANSWER

124°

Angle Addition & Angle Bisectors · 1

ANSWER

54°

Angle Addition & Angle Bisectors · 4

ANSWER

114°

Angle Addition & Angle Bisectors · 3

ANSWER

70°

Angle Addition & Angle Bisectors · 6

ANSWER

45°

Angle Addition & Angle Bisectors · 5

ANSWER

102°

Angle Addition & Angle Bisectors · 8

ANSWER

96°

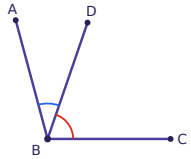
Angle Addition & Angle Bisectors · 7

ANSWER

23°

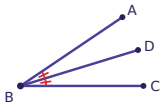
Angle Addition & Angle Bisectors · 9

m∠ABD = (4x - 10)°, m∠DBC = (5x + 16)°, and m∠ABC = 105°. Find m∠DBC.



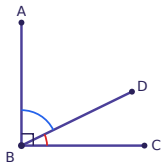
Angle Addition & Angle Bisectors · 10

BD bisects ∠ABC. m∠ABD = (x + 10)° and m∠DBC = (4x - 11)°. Find m∠ABC.



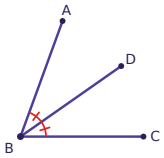
Angle Addition & Angle Bisectors · 11

m∠ABD = (5x + 24)°, m∠DBC = (5x - 14)°, and ∠ABC is a right angle. Find m∠DBC.



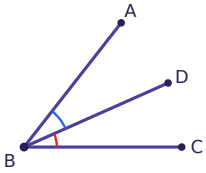
Angle Addition & Angle Bisectors · 12

BD bisects ∠ABC. m∠ABD = (2x + 23)° and m∠ABC = (6x + 34)°. Find m∠DBC.



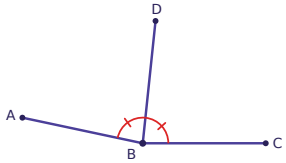
Angle Addition & Angle Bisectors · 13

m∠ABD = (x + 24)°, m∠DBC = (7x - 4)°, and m∠ABC = 52°. Find m∠ABD.



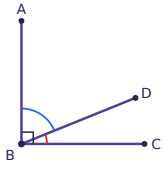
Angle Addition & Angle Bisectors · 14

BD bisects ∠ABC. m∠ABD = (5x + 59)° and m∠DBC = (9x + 39)°. Find m∠ABC.



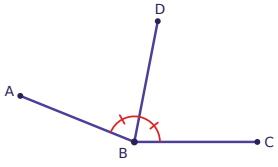
Angle Addition & Angle Bisectors · 15

m∠ABD = (2x + 40)°, m∠DBC = (x + 8)°, and ∠ABC is a right angle. Find m∠ABD.



Angle Addition & Angle Bisectors · 16

BD bisects ∠ABC. m∠ABD = (6x + 55)° and m∠ABC = (17x + 90)°. Find m∠DBC.



Angle Addition & Angle Bisectors · 10

ANSWER

34°

Angle Addition & Angle Bisectors · 9

ANSWER

71°

Angle Addition & Angle Bisectors · 12

ANSWER

35°

Angle Addition & Angle Bisectors · 11

ANSWER

26°

Angle Addition & Angle Bisectors · 14

ANSWER

168°

Angle Addition & Angle Bisectors · 13

ANSWER

28°

Angle Addition & Angle Bisectors · 16

ANSWER

79°

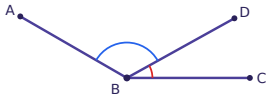
Angle Addition & Angle Bisectors · 15

ANSWER

68°

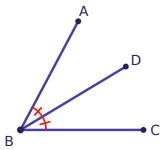
Angle Addition & Angle Bisectors · 17

m∠ABD = (12x + 1)°, m∠DBC = (4x - 11)°, and m∠ABC = 150°. Find m∠ABD.



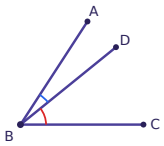
Angle Addition & Angle Bisectors · 18

BD bisects ∠ABC. m∠ABD = (x + 22)° and m∠ABC = (7x - 1)°. Find m∠DBC.



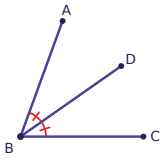
Angle Addition & Angle Bisectors · 19

m∠ABD = (3x - 24)°, m∠DBC = (4x - 17)°, and m∠ABC = 57°. Find m∠DBC.



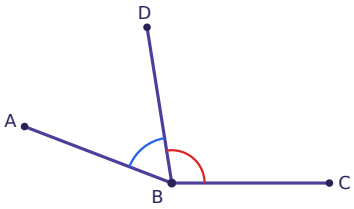
Angle Addition & Angle Bisectors · 20

BD bisects ∠ABC. m∠ABD = (2x + 27)° and m∠DBC = (5x + 15)°. Find m∠ABC.



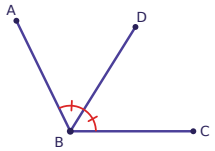
Angle Addition & Angle Bisectors · 21

m∠ABD = 6x°, m∠DBC = (6x + 39)°, and m∠ABC = 159°. Find m∠DBC.



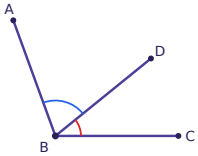
Angle Addition & Angle Bisectors · 22

BD bisects ∠ABC. m∠ABD = (6x - 26)° and m∠ABC = (7x + 18)°. Find m∠DBC.



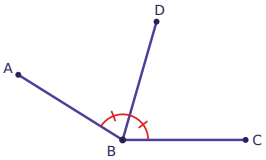
Angle Addition & Angle Bisectors · 23

m∠ABD = (4x + 31)°, m∠DBC = (5x - 11)°, and m∠ABC = 110°. Find m∠ABD.



Angle Addition & Angle Bisectors · 24

BD bisects ∠ABC. m∠ABD = (5x + 4)° and m∠ABC = (12x - 20)°. Find m∠DBC.



Angle Addition & Angle Bisectors · 18

ANSWER

31°

Angle Addition & Angle Bisectors · 17

ANSWER

121°

Angle Addition & Angle Bisectors · 20

ANSWER

70°

Angle Addition & Angle Bisectors · 19

ANSWER

39°

Angle Addition & Angle Bisectors · 22

ANSWER

58°

Angle Addition & Angle Bisectors · 21

ANSWER

99°

Angle Addition & Angle Bisectors · 24

ANSWER

74°

Angle Addition & Angle Bisectors · 23

ANSWER

71°