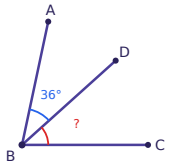
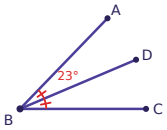
Angle Addition & Angle Bisectors · 1

m∠ABC = 78° and m∠ABD = 36°. Find m∠DBC.



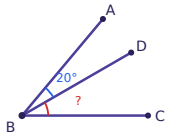
Angle Addition & Angle Bisectors · 2

BD bisects ∠ABC and m∠ABD = 23°. Find m∠ABC.



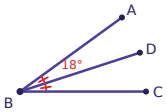
Angle Addition & Angle Bisectors · 3

m∠ABC = 50° and m∠ABD = 20°. Find m∠DBC.



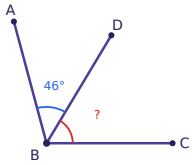
Angle Addition & Angle Bisectors · 4

BD bisects ∠ABC and m∠ABD = 18°. Find m∠ABC.



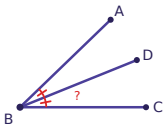
Angle Addition & Angle Bisectors · 5

m∠ABC = 105° and m∠ABD = 46°. Find m∠DBC.



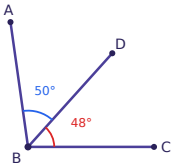
Angle Addition & Angle Bisectors · 6

BD bisects ∠ABC and m∠ABC = 44°. Find m∠DBC.



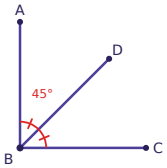
Angle Addition & Angle Bisectors · 7

m∠ABD = 50° and m∠DBC = 48°. Find m∠ABC.



Angle Addition & Angle Bisectors · 8

BD bisects ∠ABC and m∠ABD = 45°. Find m∠ABC.



Angle Addition & Angle Bisectors · 2

ANSWER

46°

Angle Addition & Angle Bisectors · 1

ANSWER

42°

Angle Addition & Angle Bisectors · 4

ANSWER

36°

Angle Addition & Angle Bisectors · 3

ANSWER

30°

Angle Addition & Angle Bisectors · 6

ANSWER

22°

Angle Addition & Angle Bisectors · 5

ANSWER

59°

Angle Addition & Angle Bisectors · 8

ANSWER

90°

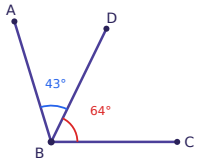
Angle Addition & Angle Bisectors · 7

ANSWER

98°

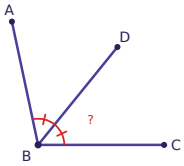
Angle Addition & Angle Bisectors · 9

m∠ABD = 43° and m∠DBC = 64°. Find m∠ABC.



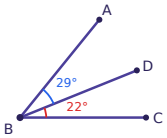
Angle Addition & Angle Bisectors · 10

BD bisects ∠ABC and m∠ABC = 102°. Find m∠DBC.



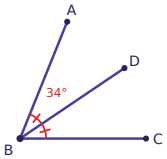
Angle Addition & Angle Bisectors · 11

m∠ABD = 29° and m∠DBC = 22°. Find m∠ABC.



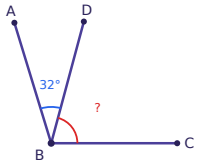
Angle Addition & Angle Bisectors · 12

BD bisects ∠ABC and m∠ABD = 34°. Find m∠ABC.



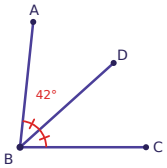
Angle Addition & Angle Bisectors · 13

m∠ABC = 107° and m∠ABD = 32°. Find m∠DBC.



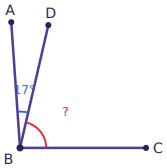
Angle Addition & Angle Bisectors · 14

BD bisects ∠ABC and m∠ABD = 42°. Find m∠ABC.



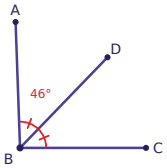
Angle Addition & Angle Bisectors · 15

m∠ABC = 94° and m∠ABD = 17°. Find m∠DBC.



Angle Addition & Angle Bisectors · 16

BD bisects ∠ABC and m∠ABD = 46°. Find m∠ABC.



Angle Addition & Angle Bisectors · 10

ANSWER

51°

Angle Addition & Angle Bisectors · 9

ANSWER

107°

Angle Addition & Angle Bisectors · 12

ANSWER

68°

Angle Addition & Angle Bisectors · 11

ANSWER

51°

Angle Addition & Angle Bisectors · 14

ANSWER

84°

Angle Addition & Angle Bisectors · 13

ANSWER

75°

Angle Addition & Angle Bisectors · 16

ANSWER

92°

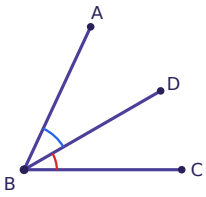
Angle Addition & Angle Bisectors · 15

ANSWER

77°

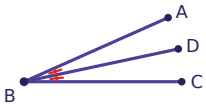
Angle Addition & Angle Bisectors · 17

m∠ABD = (4x - 1)°, m∠DBC = (3x + 3)°, and m∠ABC = 65°. Find x.



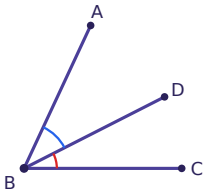
Angle Addition & Angle Bisectors · 18

BD bisects ∠ABC. m∠ABD = (2x - 2)° and m∠DBC = (4x - 16)°. Find x.



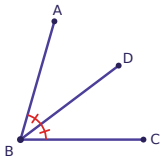
Angle Addition & Angle Bisectors · 19

m∠ABD = (x + 31)°, m∠DBC = (3x + 6)°, and m∠ABC = 65°. Find x.



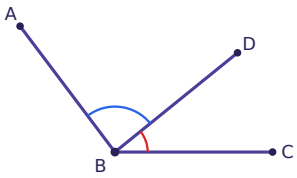
Angle Addition & Angle Bisectors · 20

BD bisects ∠ABC. m∠ABD = (6x - 17)° and m∠DBC = (3x + 10)°. Find x.



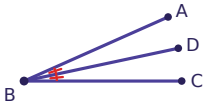
Angle Addition & Angle Bisectors · 21

m∠ABD = (6x + 34)°, m∠DBC = (3x + 12)°, and m∠ABC = 127°. Find x.



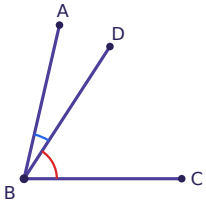
Angle Addition & Angle Bisectors · 22

BD bisects ∠ABC. m∠ABD = (2x - 6)° and m∠DBC = (x + 3)°. Find x.



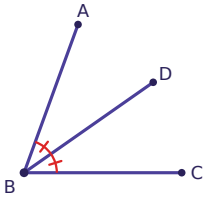
Angle Addition & Angle Bisectors · 23

m∠ABD = (x + 9)°, m∠DBC = (5x + 2)°, and m∠ABC = 77°. Find x.



Angle Addition & Angle Bisectors · 24

BD bisects ∠ABC. m∠ABD = (6x + 11)° and m∠DBC = (x + 31)°. Find x.



Angle Addition & Angle Bisectors · 18

ANSWER

7

Angle Addition & Angle Bisectors · 17

ANSWER

9

Angle Addition & Angle Bisectors · 20

ANSWER

9

Angle Addition & Angle Bisectors · 19

ANSWER

7

Angle Addition & Angle Bisectors · 22

ANSWER

9

Angle Addition & Angle Bisectors · 21

ANSWER

9

Angle Addition & Angle Bisectors · 24

ANSWER

4

Angle Addition & Angle Bisectors · 23

ANSWER

11