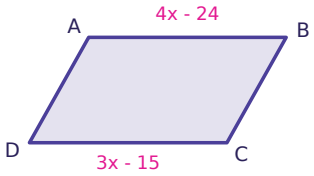
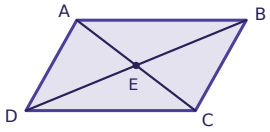
Properties of Parallelograms, Rectangles, Rhombuses & Kites · 1

ABCD is a parallelogram. AB = 4x - 24 and CD = 3x - 15. Find x.



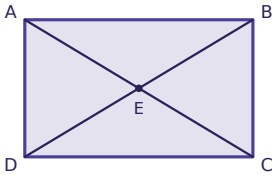
Properties of Parallelograms, Rectangles, Rhombuses & Kites · 2

ABCD is a parallelogram whose diagonals meet at E. AE = 2x + 2 and EC = 3x - 4. Find x.



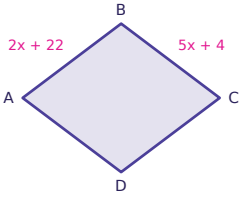
Properties of Parallelograms, Rectangles, Rhombuses & Kites · 3

ABCD is a rectangle. AC = 4x + 20 and BD = 6x + 8. Find x.



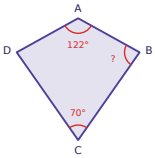
Properties of Parallelograms, Rectangles, Rhombuses & Kites · 4

ABCD is a rhombus. AB = 2x + 22 and BC = 5x + 4. Find x.



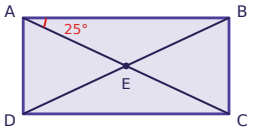
Properties of Parallelograms, Rectangles, Rhombuses & Kites · 5

ABCD is a kite with AB = AD and CB = CD. m∠A = 122° and m∠C = 70°. Find m∠B.



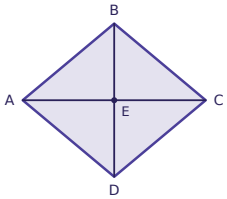
Properties of Parallelograms, Rectangles, Rhombuses & Kites · 6

ABCD is a rectangle whose diagonals meet at E. m∠EAB = 25°. Find m∠EBC.



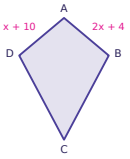
Properties of Parallelograms, Rectangles, Rhombuses & Kites · 7

ABCD is a rhombus whose diagonals meet at E. Find m∠AEB.



Properties of Parallelograms, Rectangles, Rhombuses & Kites · 8

ABCD is a kite with AB = AD and CB = CD. AB = 2x + 4 and AD = x + 10. Find x.



Properties of Parallelograms, Rectangles, Rhombuses & Kites · 2

ANSWER

6

Properties of Parallelograms, Rectangles, Rhombuses & Kites · 1

ANSWER

9

Properties of Parallelograms, Rectangles, Rhombuses & Kites · 4

ANSWER

6

Properties of Parallelograms, Rectangles, Rhombuses & Kites · 3

ANSWER

6

Properties of Parallelograms, Rectangles, Rhombuses & Kites · 6

ANSWER

65°

Properties of Parallelograms, Rectangles, Rhombuses & Kites · 5

ANSWER

84°

Properties of Parallelograms, Rectangles, Rhombuses & Kites · 8

ANSWER

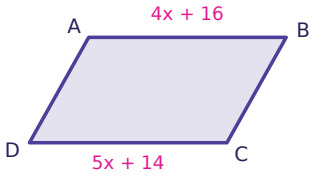
6

Properties of Parallelograms, Rectangles, Rhombuses & Kites · 7

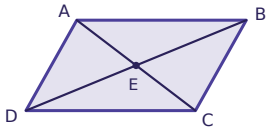
ANSWER

90°

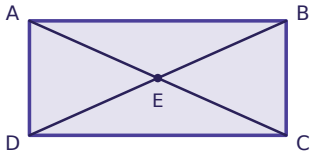
ABCD is a parallelogram. AB = 4x + 16 and CD = 5x + 14. Find x.



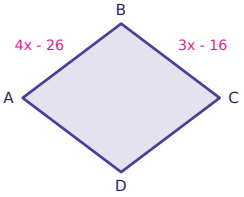
ABCD is a parallelogram whose diagonals meet at E. BE = 5x - 3 and ED = 6x - 5. Find x.



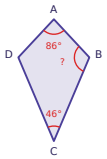
ABCD is a rectangle. AC = 3x + 12 and BD = 4x + 7. Find x.



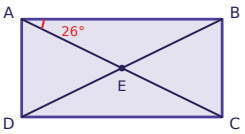
ABCD is a rhombus. AB = 4x - 26 and BC = 3x - 16. Find x.



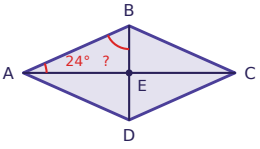
ABCD is a kite with AB = AD and CB = CD. m∠A = 86° and m∠C = 46°. Find m∠B.



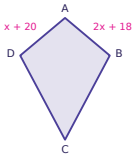
ABCD is a rectangle whose diagonals meet at E. m∠EAB = 26°. Find m∠EBC.



ABCD is a rhombus whose diagonals meet at E. m∠EAB = 24°. Find m∠ABE.



ABCD is a kite with AB = AD and CB = CD. AB = 2x + 18 and AD = x + 20. Find x.



Properties of Parallelograms, Rectangles, Rhombuses & Kites · 10

ANSWER

2

Properties of Parallelograms, Rectangles, Rhombuses & Kites · 9

ANSWER

2

Properties of Parallelograms, Rectangles, Rhombuses & Kites · 12

ANSWER

10

Properties of Parallelograms, Rectangles, Rhombuses & Kites · 11

ANSWER

5

Properties of Parallelograms, Rectangles, Rhombuses & Kites · 14

ANSWER

64°

Properties of Parallelograms, Rectangles, Rhombuses & Kites · 13

ANSWER

114°

Properties of Parallelograms, Rectangles, Rhombuses & Kites · 16

ANSWER

2

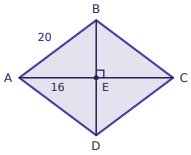
Properties of Parallelograms, Rectangles, Rhombuses & Kites · 15

ANSWER

66°

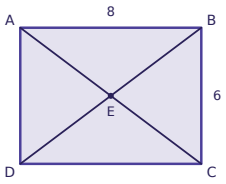
Properties of Parallelograms, Rectangles, Rhombuses & Kites · 17

ABCD is a rhombus whose diagonals meet at E. AB = 20 and AC = 32. Find BD.



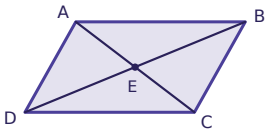
Properties of Parallelograms, Rectangles, Rhombuses & Kites · 18

ABCD is a rectangle with AB = 8 and BC = 6. Find AC.



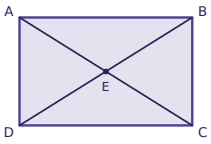
Properties of Parallelograms, Rectangles, Rhombuses & Kites · 19

ABCD is a parallelogram whose diagonals meet at E. AE = 4x - 21 and EC = x + 9. Find AC.



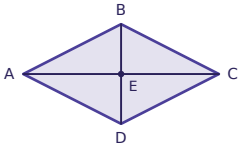
Properties of Parallelograms, Rectangles, Rhombuses & Kites · 20

ABCD is a rectangle whose diagonals meet at E. AE = x + 10 and BD = 5x + 8. Find BD.



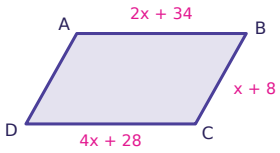
Properties of Parallelograms, Rectangles, Rhombuses & Kites · 21

ABCD is a rhombus whose diagonals meet at E. m∠AEB = (11x + 24)°. Find x.



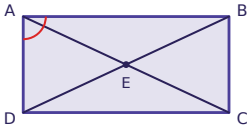
Properties of Parallelograms, Rectangles, Rhombuses & Kites · 22

ABCD is a parallelogram. AB = 2x + 34, CD = 4x + 28 and BC = x + 8. Find the perimeter of ABCD.



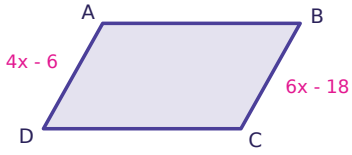
Properties of Parallelograms, Rectangles, Rhombuses & Kites · 23

ABCD is a rectangle. m∠BAC = (6x - 5)° and m∠CAD = (4x + 45)°. Find x.



Properties of Parallelograms, Rectangles, Rhombuses & Kites · 24

ABCD is a parallelogram. AD = 4x - 6 and BC = 6x - 18. Find x.



Properties of Parallelograms, Rectangles, Rhombuses & Kites · 18

ANSWER

10

Properties of Parallelograms, Rectangles, Rhombuses & Kites · 17

ANSWER

24

Properties of Parallelograms, Rectangles, Rhombuses & Kites · 20

ANSWER

28

Properties of Parallelograms, Rectangles, Rhombuses & Kites · 19

ANSWER

38

Properties of Parallelograms, Rectangles, Rhombuses & Kites · 22

ANSWER

102

Properties of Parallelograms, Rectangles, Rhombuses & Kites · 21

ANSWER

6

Properties of Parallelograms, Rectangles, Rhombuses & Kites · 24

ANSWER

6

Properties of Parallelograms, Rectangles, Rhombuses & Kites · 23

ANSWER

5