Factoring Trinomials Word Problems

Name:

Date:

Solve each problem.

1) The area of a parallelogram is $x^2 - 12x + 35$. If the height of parallelogram is $x - 5$, what is its base?

2) The area of a rectangle is $x^2 + 15x - 34$. If the width of rectangle is $(x - 2)$, what is its length?

3) The area of a parallelogram is $x^2 - 10x - 39$. If the height of parallelogram is $x + 3$, what is its base?

4) The area of a rectangle is $9x^2 - 34x + 21$. If the width of rectangle is $(x - 3)$, what is its length?

5) The area of a rectangle is $x^2 + 8x + 15$. If the width of rectangle is $(x + 3)$, what is its length?

6) The area of a parallelogram is $x^2 - 6x - 27$. If the height of parallelogram is $x + 3$, what is its base?

7) The area of a parallelogram is $3x^2 + 11x - 4$. If the height of parallelogram is $x + 4$, what is its base?

8) The area of a rectangle is $x^2 + 2x - 24$. If the width of rectangle is $(x - 4)$, what is its length?

9) The area of a parallelogram is $x^2 - 10x + 9$. If the height of parallelogram is $x - 1$, what is its base?

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Answers

Solve each problem.

1) The area of a parallelogram is $x^2 - 12x + 35$. If the height of parallelogram is $x - 5$, what is its base?

Base $= x - 7$

2) The area of a rectangle is $x^2 + 15x - 34$. If the width of rectangle is $(x - 2)$, what is its length?

Length $= x + 17$

3) The area of a parallelogram is $x^2 - 10x - 39$. If the height of parallelogram is $x + 3$, what is its base?

Base $= x - 13$

4) The area of a rectangle is $9x^2 - 34x + 21$. If the width of rectangle is $(x - 3)$, what is its length?

Length $= 9x - 7$

5) The area of a rectangle is $x^2 + 8x + 15$. If the width of rectangle is $(x + 3)$, what is its length?

Length $= x + 5$

6) The area of a parallelogram is $x^2 - 6x - 27$. If the height of parallelogram is $x + 3$, what is its base?

Base $= x - 9$

7) The area of a parallelogram is $3x^2 + 11x - 4$. If the height of parallelogram is $x + 4$, what is its base?

Base $= 3x - 1$

8) The area of a rectangle is $x^2 + 2x - 24$. If the width of rectangle is $(x - 4)$, what is its length?

Length $= x + 6$

9) The area of a parallelogram is $x^2 - 10x + 9$. If the height of parallelogram is $x - 1$, what is its base?

Base $= x - 9$