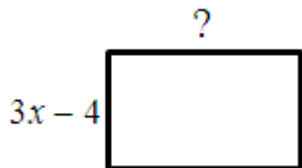


**Pre Calculus 11 HW 0.4 Simplifying Algebraic Expressions Extra Practice:**

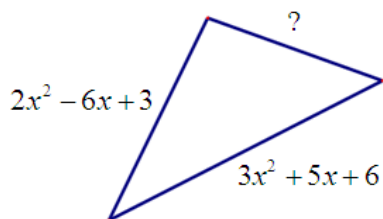
1. The perimeter of a rectangle is  $24x + 15$  and the width is  $3x - 4$ . What is the length?



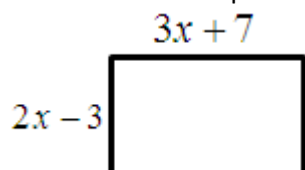
2. The perimeter of a triangle is  $12y - 8z$ . Two sides are  $3y + 5z$  and  $2y$ . What is the other side?

3. The perimeter of a triangle is  $7x^2 - 5x + 8$ . Two sides are  $4x + 3$  and  $3x^2 + 7x - 3$ . What is the other side?

4. The perimeter of a triangle is  $6x^2 + 7x - 12$ . Find the missing side.

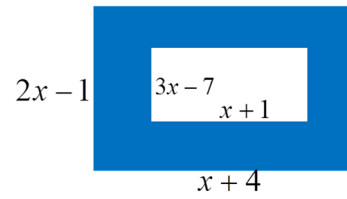
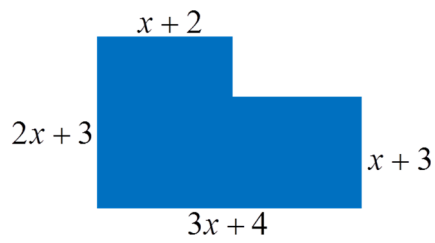


5. The perimeter of a rectangle is  $15y + 8x$  and the length is  $3x - 5y$ . What is the width?



6. If the length of this rectangle is increased by two and the width is decreased by five, then determine the new expression for the perimeter.

7. Find the area of the shaded region for each of the following diagrams:



8. Find the area and perimeter of each of the following shapes:

