

Name: \_\_\_\_\_

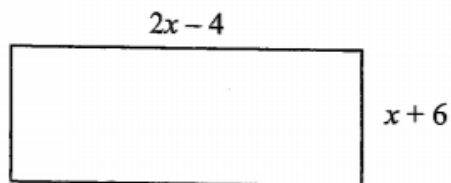
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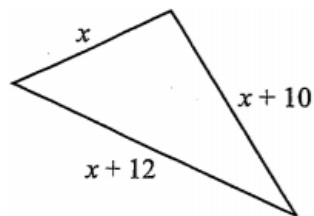
Practice Assignment

1. Find the perimeter of the following figures:

a.



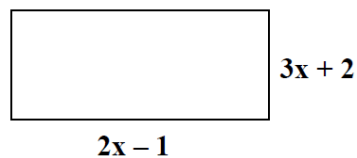
b.



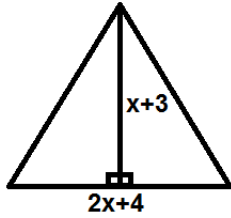
2. The measure of the perimeter of a triangle is  $37x + 42$ . It is known that two of the sides of the triangle have measures of  $14x + 16$  and  $10x + 20$ . Find the length of the third side.

3. A rectangle has a perimeter of  $12y^2 - 2y + 18$  and has a width of  $4y^2 - y + 6$ . What is the length of the rectangle?

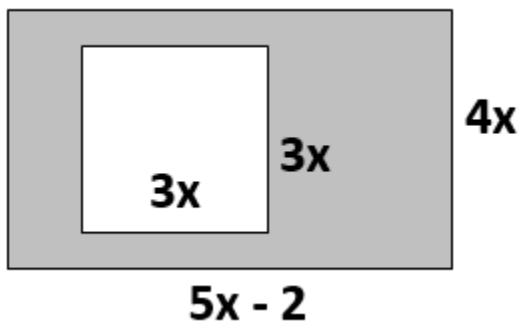
4. Write an expression for the perimeter and area of the following rectangle.



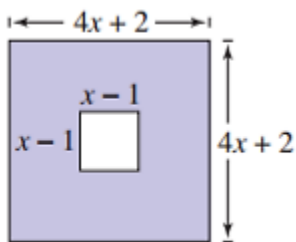
5. Write an expression for the area of the triangle ( $A = \frac{bh}{2}$  or  $A = \frac{1}{2}bh$ ).



6. Find the area of the shaded region:



7. Find the area of the shaded region:



8. The polynomial  $c(x) = x^2 + 4x - 10$  models the cost a company incurs from making an item at a price  $x$ . The polynomial  $i(x) = 4x^2 - x + 20$  represents the income from selling the same item at a price  $x$ . Write a polynomial that expresses the profit from making and selling the item. (hint: profit = income - cost)