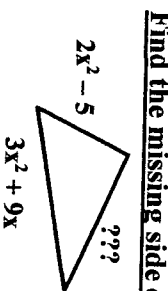


GSE Algebra I Standards: Adding and Subtracting Polynomials **WORKSHEET**

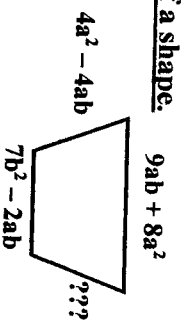
Word Problems:

- 1) Bob mowed $(2x^2 + 5x - 3)$ yards on Monday, $(4x - 7)$ yards on Tuesday, and $(3x^2 + 10)$ yards on Wednesday.
 - a. How many yards did he mow in the three days?
 - b. If Bob mowed $14x^2 + 12x - 3$ yards total for the entire week, how many yards did he mow during the rest of the week?
- 2) Molly has $(4x + 10)$ dollars and Ron has $(-5x + 20)$ dollars.
 - a. How much money do they have altogether?
 - b. How much more money does Molly have than Ron?
- 3) Ross has $(8x - 5)$ tickets for Chuck E Cheese. He is going to play today and wants to buy a prize that is $(15x + 1)$ tickets. How many tickets must he win to have enough tickets to buy the prize?

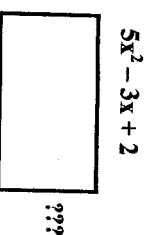
Find the missing side of a shape.



Perimeter
 $5x^2 + 7x + 12$



Perimeter
 $9b^2 - 2ab + 12a^2$



Perimeter
 $14x^2 + 4x - 8$

- 4) The measure of the perimeter of a triangle is $37s + 42$. It is known that two of the sides of the triangle have measures of $14s + 16$ and $10s + 20$. Find the length of the third side.
- 5) A triangle has a perimeter of $10a + 3b + 12$ and has sides of length $3a + 8$ and $5a + b$, what is the length of the third side?
- 6) For a rectangle with length of $3x + 4$ and perimeter of $10x + 18$, what is the width of the rectangle?
- 7) 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?