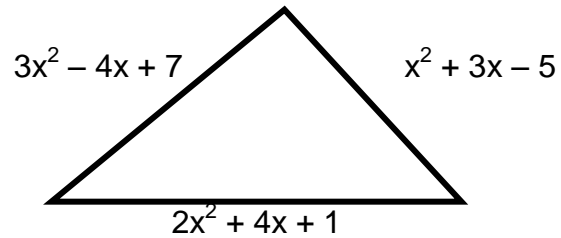Name _____

ADD AND SUBTRACT POLYNOMIALS

Simplify.

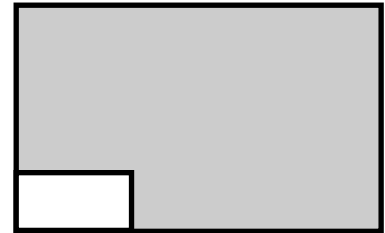| 1) $(2x^2 + 3x + 2) + (x^2 - 5x - 5)$	2) $(2x^2 + x - 4) - (x^2 - 4x + 1)$

3) Find the perimeter of the triangle shown.

$3x^2 - 4x + 7$ $x^2 + 3x - 5$

$2x^2 + 4x + 1$

4) If the perimeter of a triangle is $6x^2 + 5x - 5$ and two of the sides are $x^2 + x + 1$ and $2x - 1$, what would be the length of the third side?

5) Find the area of the shaded region if $9x^2 - 6x + 3$ is the area of the TOTAL region and $3x^2 + 2$ is the area of the UNSHADED region.

6) Find the TOTAL area of the figure.

y^2 y^2

$13y^2 + y + 4$

y^2 y^2