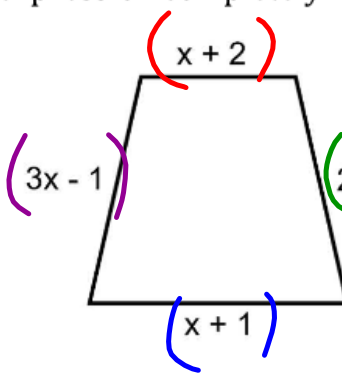


**Homework #46 - Adding Algebraic Expressions**

<p>1) Find the sum of <math>(7y + 5)</math> and <math>(y - 3)</math></p> $(7y + 5) + (y - 3)$ $\boxed{7y + 5} + \boxed{y - 3}$ $8y + 2$	<p>2) Find the sum of <math>(5k + 4)</math> and <math>(6 - 2k)</math></p> $(5k + 4) + (6 - 2k)$ $\boxed{5k + 4} + \boxed{6 - 2k}$ $3k + 10$
<p>3) Find the sum: <math>(5r + 3) + (-1 + 6r)</math></p> $\boxed{5r + 3} + \boxed{-1 + 6r}$ $11r + 2$	<p>4) Find the sum: <math>(4r + 9) + (r - 3)</math></p> $\boxed{4r + 9} + \boxed{r - 3}$ $5r + 6$

5) Write an expression to find the perimeter of the trapezoid below. Simplify the expression completely.



$(x + 2) + (2x + 1) + (x + 1) + (3x - 1)$   
 $\boxed{x + 2} + \boxed{2x + 1} + \boxed{x + 1} + \boxed{3x - 1}$   
 $7x + 3$

6) Simplify the following by combining like terms and/or the distributive property.

a)  $-7(3x - 9)$   
 $-21x + 63$

b)  $-8x + 10x$   
 $2x$

c)  $9x + 3 - 5x - 1$   
 $4x + 2$

d)  $7x - 4(3x + 2) + 12$   
 $\boxed{7x} - \boxed{12x} - \boxed{8} + 12$   
 $-5x + 4$