

1. Simplify and name which law(s) you used.

a) $2(-5x)$	b) $(x + 9)3$
c) $5 - 3(x + 4)$	d) $\frac{2}{3}(6x + 9)$
e) $-3.7 + 4.2(2.5x - 8.3)$	f) $-(3x + 2) + 5$

2. Let x be a number. Translate the English phrase to a mathematical expression. Then simplify the expression.

a) 3 times the sum of the number and 2
b) -6 , plus 2 times the difference of twice the number and 5

3. Explain what law was used in each step to show that $(a + b)c = ac + bc$

$(a + b)c = c(a + b)$	
$= ca + cb$	
$= ac + bc$	