Problem Set 1

Oskar Idland

1.1

$$[A, B]\, C + B\, [A, C] = (AB - BA)\, C + B\, (AC - CA)$$
$$ABC - BAC + BAC - BCA = ABC - BCA = \underline{\underline{[A, BC]}}$$

$$\{A, B\}\, C - B\, \{A, C\} = (AB + BA)\, C - B\, (AC + CA)$$
$$ABC + BAC - BAC - BCA = ABC - BCA = \underline{\underline{[A, BC]}}$$

1.2

a)