Combining Functions- Day 1

1. Given $f(x) = 2x + 3$ and $g(x) = 3x - 1$

   a. Find $(f + g)(x)$

                    2. Given $f(x) = 4x + 5$ and $g(x) = 5x + 2$

                       a. Find $(f + g)(x)$

   b. Solve $(f + g)(-1)$

                       b. Solve $(f + g)(-3)$

   c. Solve $(f - g)(0)$

                       c. Find $(f - g)(x)$

   d. Find $(2f)(x)$

                       d. Solve $(f - g)(0.5)$

   e. Solve $(2f)\left(\frac{1}{2}\right)$

                       e. Solve $(2f)(8)$

3. Given $f(x) = 2x^2 + 3x + 6$ and
   $g(x) = x^2 + 4x + 3$

    a. Solve $(f + g)(-3)$

4. Given $f(x) = 3x^2 - 4x + 5$ and
   $g(x) = -x^2 + 6$

    a. Solve $(f + g)(-3)$

    b. Solve $(f - g)(2)$

    b. Solve $(f - g)(2)$

    c. Find $(g - f)(2)$

    c. Solve $(g - f)(1)$