Function Operations

Given the functions $f(x) = x^2 + 3x$ and $g(x) = 2x - 4$, perform the following operations.

1. $(f + g) (x)$ =

2. $(f - g) (x)$ =

3. $(f \times g) (x)$ =

4. $\dfrac{f}{g} (x)$ **(for $g(x) \neq 0$)** =

Evaluate these operations for $x = 2$:

1. $(f + g) (2)$ =

2. $(f - g) (2)$ =

3. $(f \times g) (2)$ =

4. $\dfrac{f}{g} (2)$ =