Differentiation 2: First Principles

Example: Differentiate the following from first principles

$$f\left(x\right)=x^{ 2}$$

Questions: Differentiate each of the following from first principles

1. $f\left(x\right)= x^{2} - 2 x -7$
2. $f\left(x\right)=2 x^{2}+3 x-2$
3. $f\left(x\right)=2-3 x-2 x^{ 2}$