```
Exercise 1
```

4. 110kg - 0 112 8 (1-15)2 110k-0 11

1.
$$F$$
 μ . convert: $\sum_{i} F(\Theta_i) - F(\Theta_i) = \langle \nabla F(\Theta_i)$

Exercise 2 cvs.

1.
$$\partial_{++} - \partial_{+} = F(\theta_{++}) - F^{2} - F(\theta_{0}) + F^{4}$$
 $= F(\theta_{++} d_{+}) - \frac{1}{2} \nabla F(\theta_{1}) + F^{4}$
 $= F(\theta_{++} d_{+}) - \frac{1}{2} \nabla F(\theta_{1} + d_{+}) - \frac{1}{2} \nabla F($

=- = >+ (||g+ || - 2 < g+ , 0++ d+- 0*>)

= - \frac{1}{2} \lambda_+ \lambda_+ \lambda_+ \lambda_+ \lambda_+ \lambda_+ \lambda_+ \lambda_+ \text{0*>}