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Algorithm 1 Gradient descent
                                                                   ▶ Descend on f starting at p_0 with step size \gamma > 0
procedure Gradient Descent (f, p_0, \gamma)
    repeat
         p_{n+1} \leftarrow \exp_{p_n}(-\gamma \operatorname{grad} f(p_n))
         n \leftarrow n + 1
    until Converged
    return p_n
```

end procedure