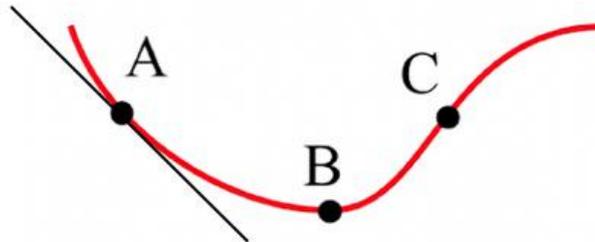
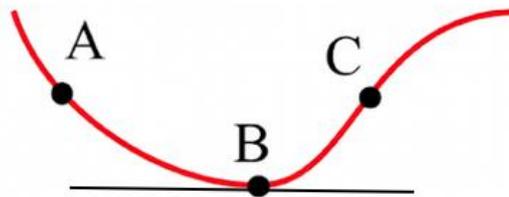


Solution: We know that the slope (or the tangent line) gives us the approximation of the direction of the curve. Therefore the path that we will follow on the curve is given by the slope (or the tangent line) at that point.

1. If we fall at point A, the path that we will follow will be given by the tangent line drawn at point A (as shown in the figure below)



2. If we fall at point B, the path that we will follow will be given by the tangent line drawn at point B (as shown in the figure below)



3. If we fall at point C, the path that we will follow will be given by the tangent line drawn at point C (as shown in the figure below)

