

Chapter 12

Fundamentals of Differentiation



Fig. 12-1: Determining the gradient of a straight line illustrated.

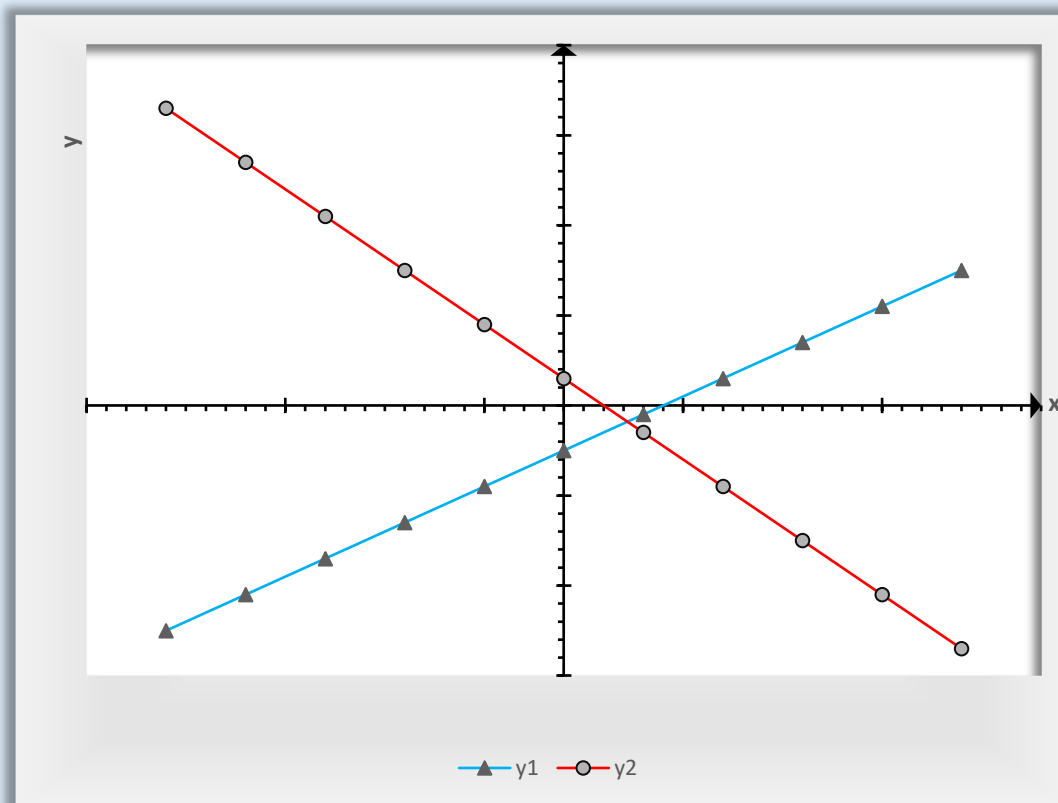


Fig. 12-2: Gradient of non-linear functions illustrated.

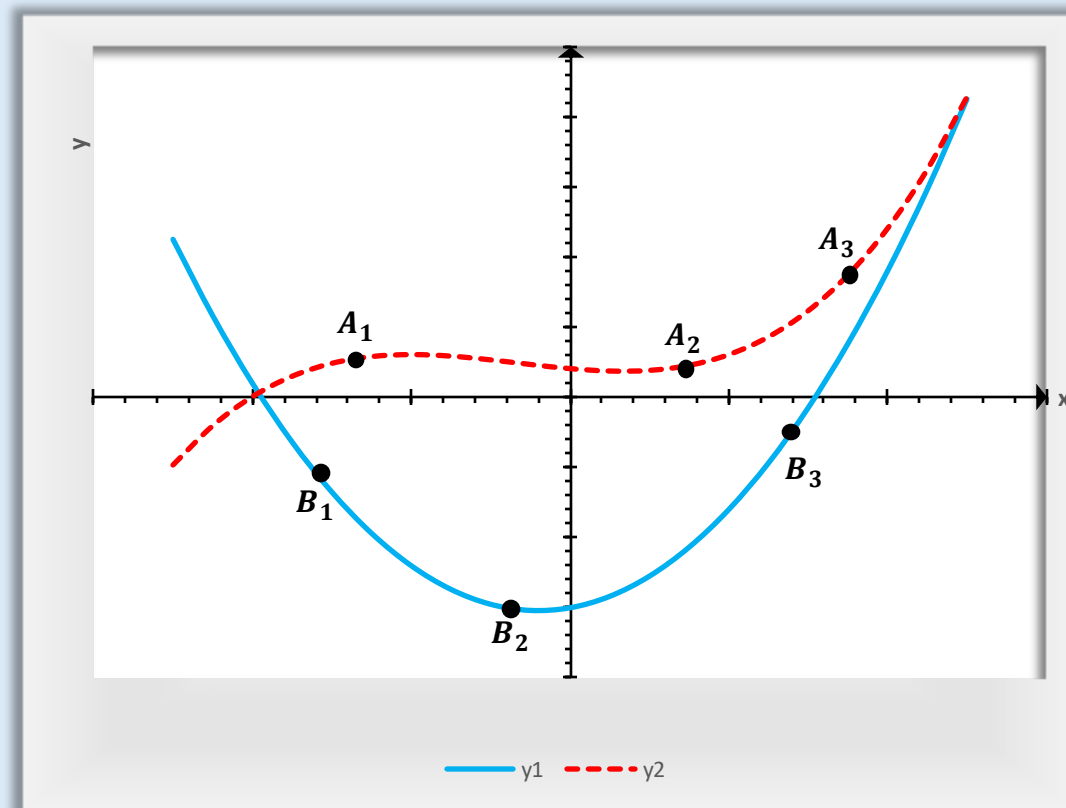


Fig. 12-3: Drawing tangent – Part I.

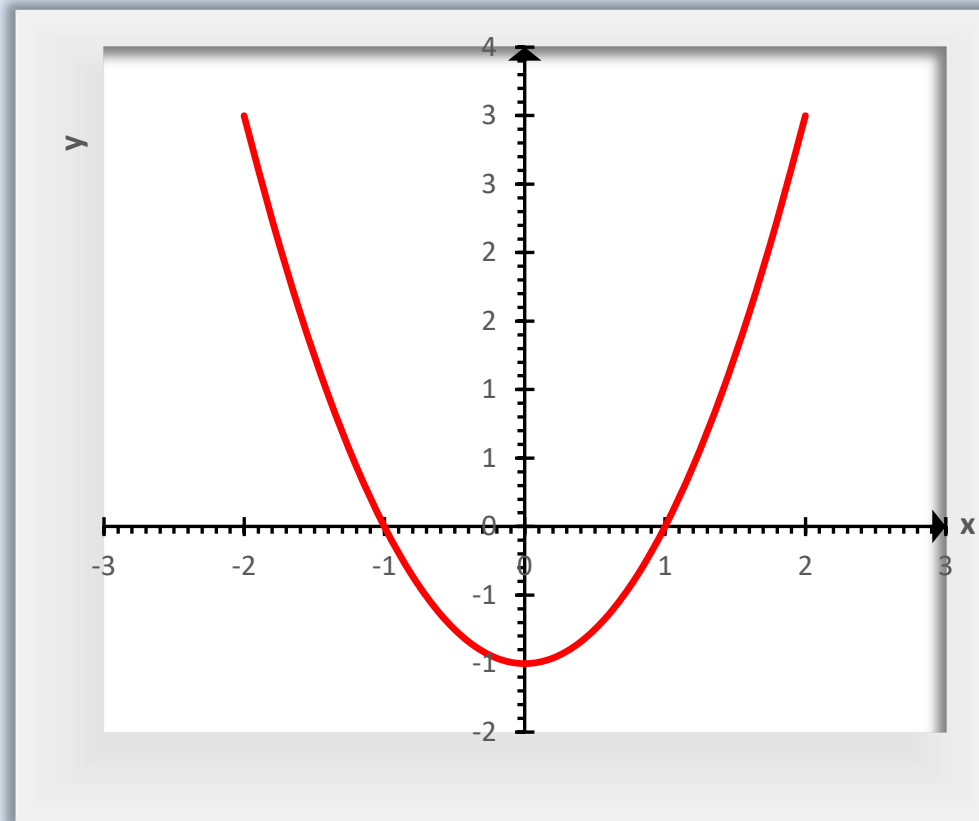


Fig. 12-4: Drawing tangent – Part II.

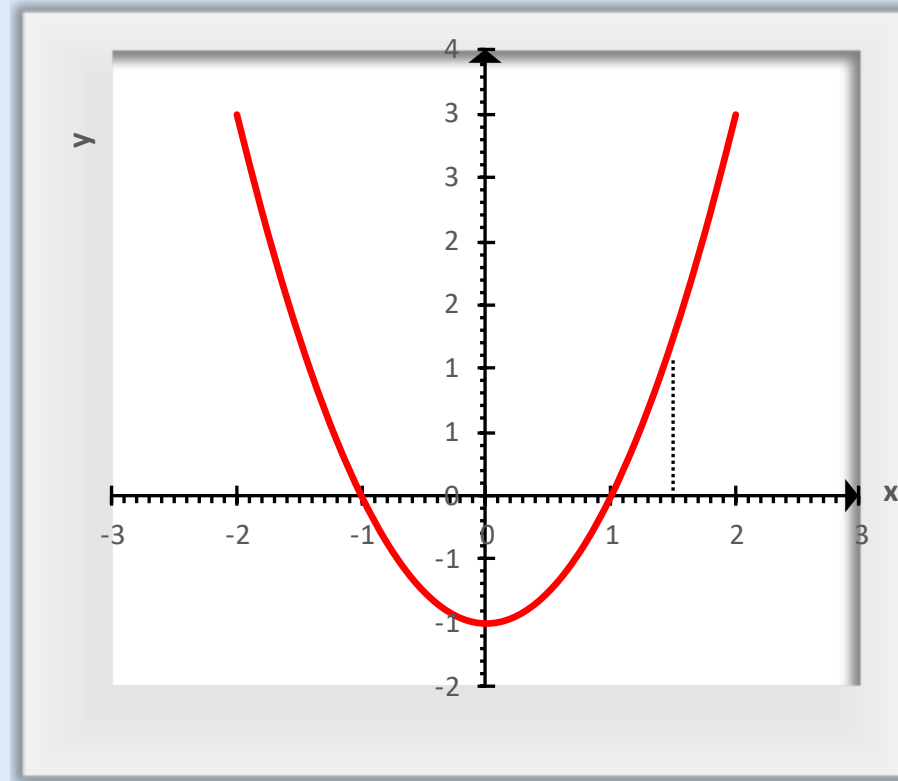


Fig. 12-5: Drawing tangent – Part III.

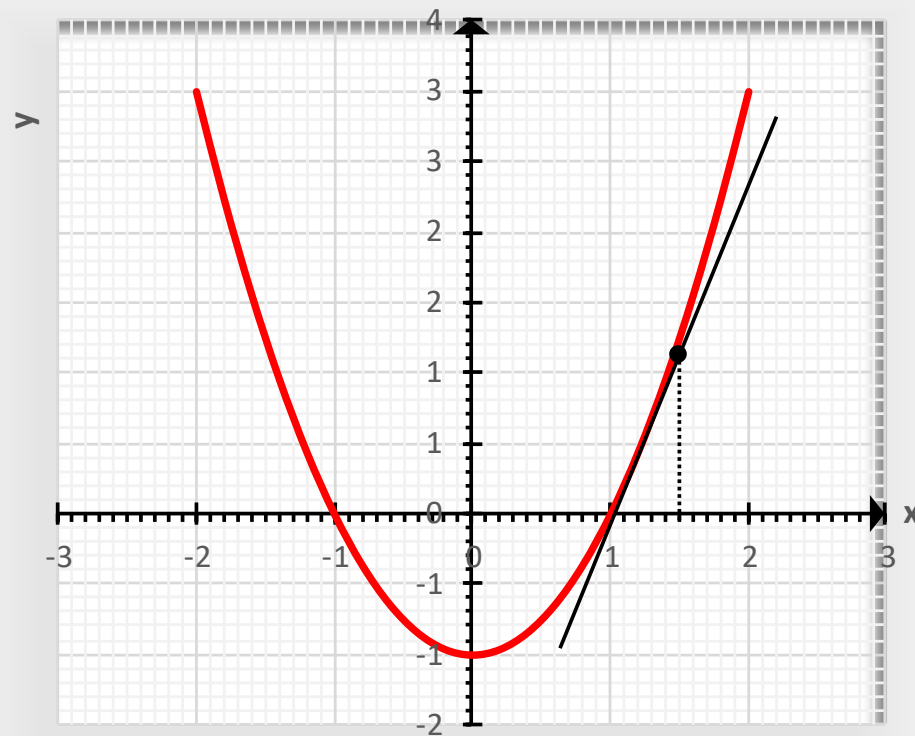


Fig. 12-6: Drawing tangent – Part IV.

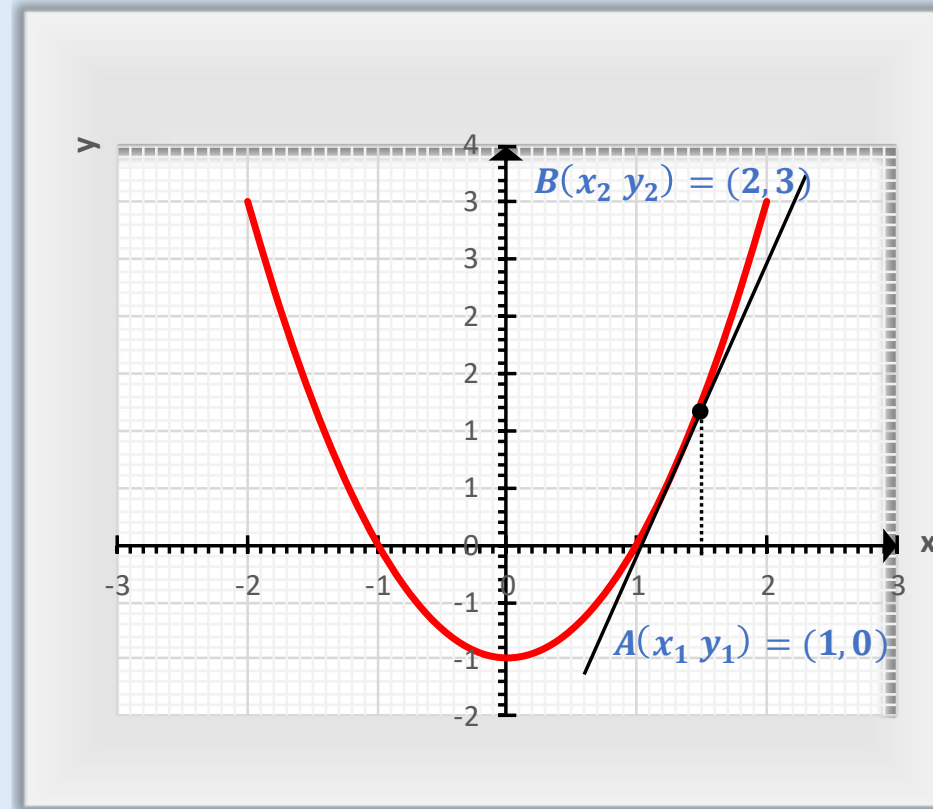


Fig. 12-7: Numerical method of determining the gradient of a non-linear function illustrated.

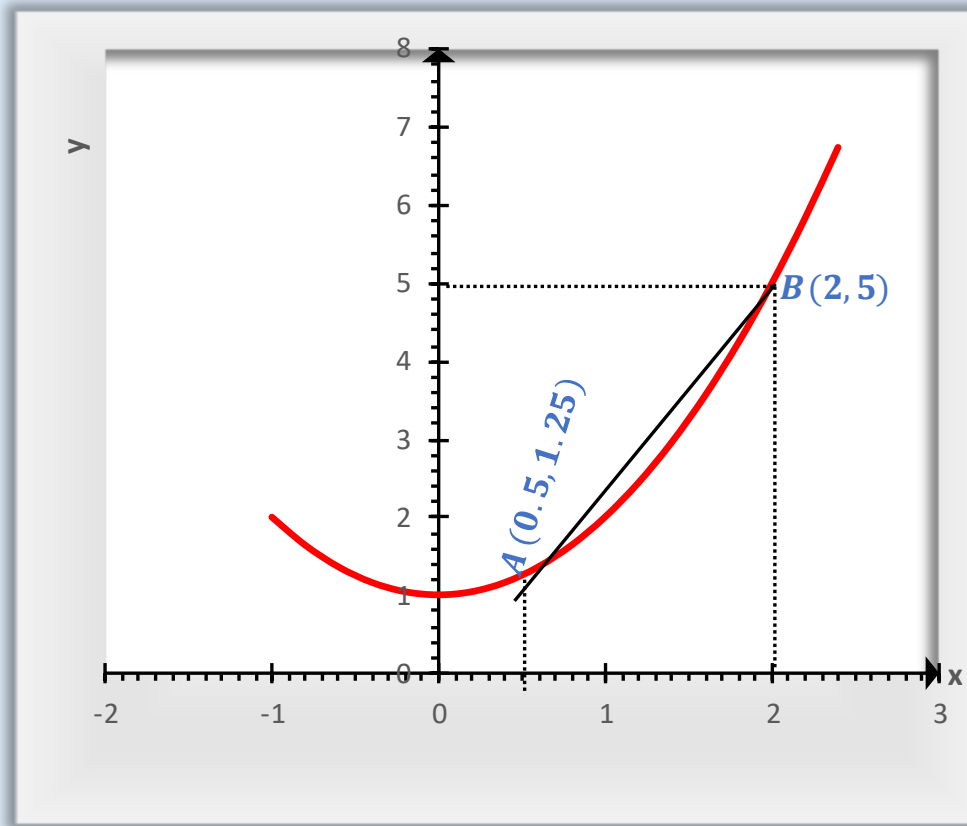


Fig. 12-8: Analytical method of determining the gradient of a non-linear function illustrated.

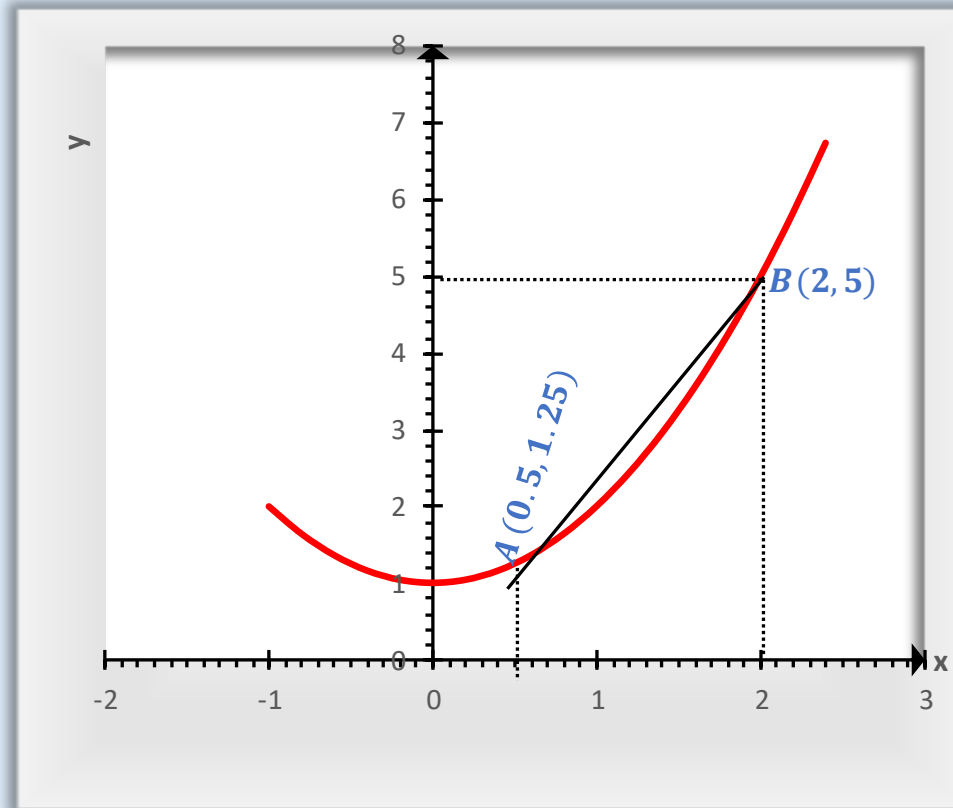


Fig. 12-9: Procedure for determining the derivative of a power function illustrated.

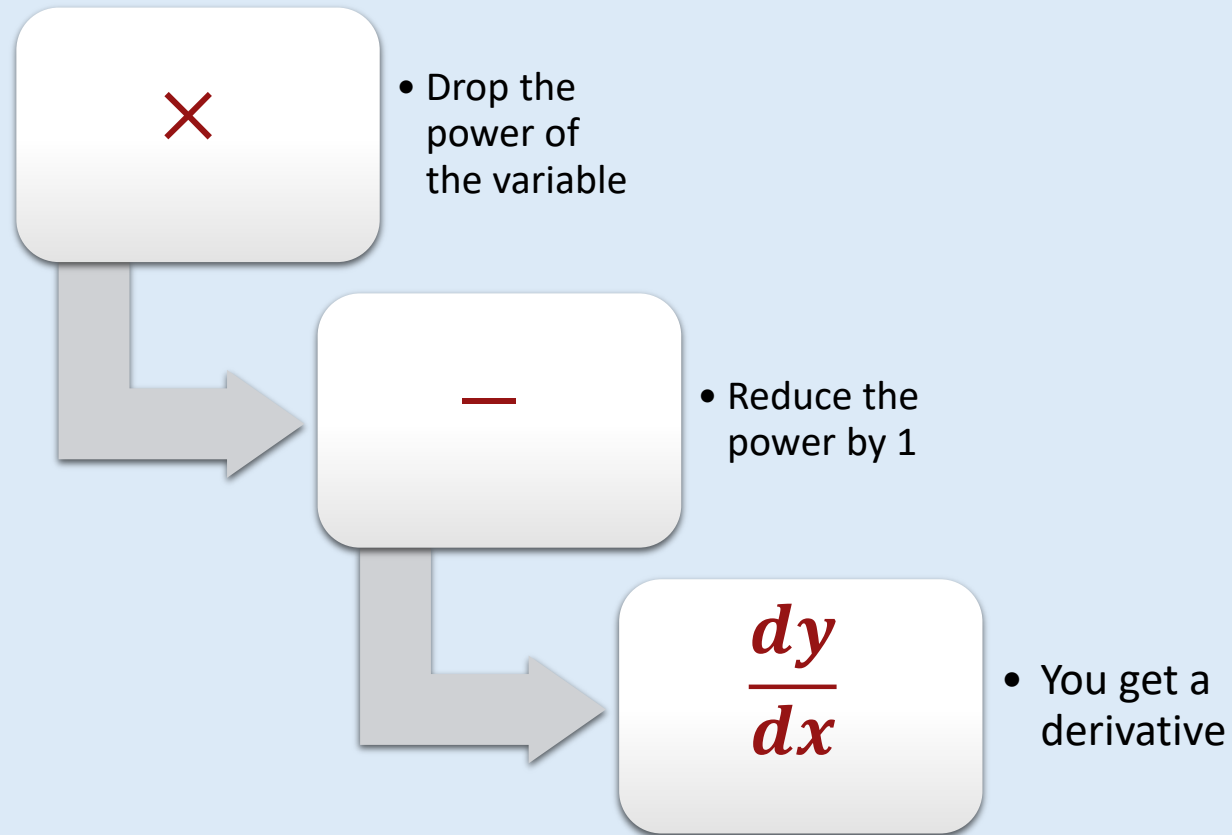
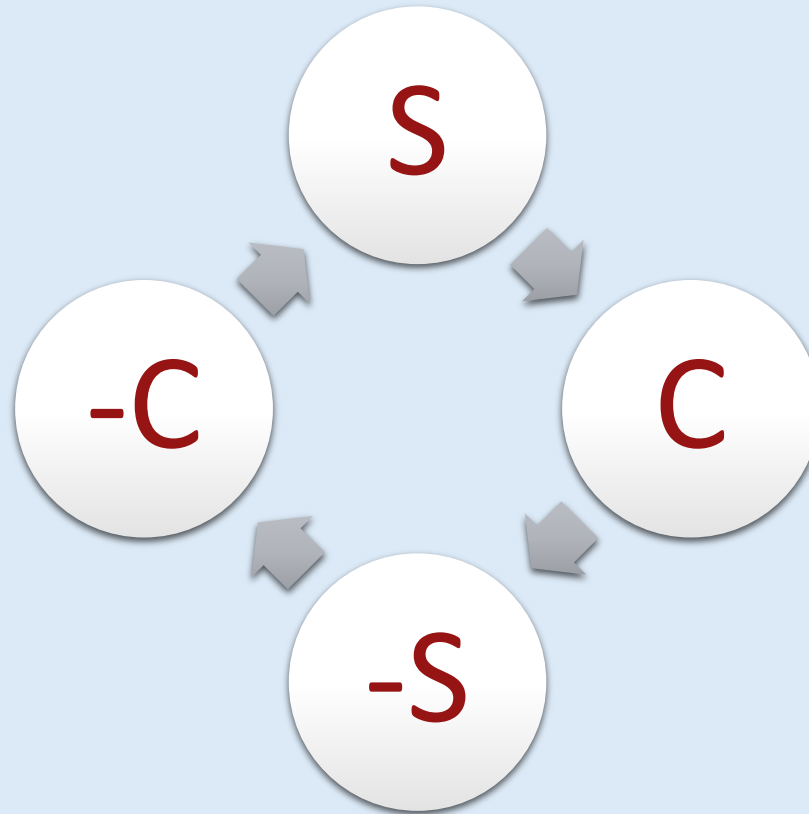


Fig. 12-10: Solution to Example 16(e).



Thank You

