1.9 Are the following expressions exact differentials?

(a)
$$xy^2 dx - x^2 y dy$$
 (b) $\frac{dx}{y} - \frac{x}{y^2} dy$

SOLUTION

(a) Taking the cross derivatives

$$\frac{\partial xy^2}{\partial y} = 2xy$$
 $\frac{\partial (-x^2y)}{\partial x} = -2xy$

Since the cross derivatives are unequal, the expression is not an exact differential.

(b)
$$\frac{\partial(1/y)}{\partial y} = -\frac{1}{y^2}$$
 $\frac{\partial(-x/y^2)}{\partial x} = -\frac{1}{y^2}$

Since the cross derivatives are equal, the expression is an exact differential.

(1.10) A mole of liquid water is vaporized at 100 °C and 1.013 bar. The heat of vaporization is 40.69 kJ mol $^{-1}$. What are the values of (a) w_{rev} , (b) q, (c) ΔU , and (d) ΔH ?

SOLUTION

(a) Assuming that water vapor is a perfect gas and that the volume of liquid water

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