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<sup>-1</sup>. What are the values of (a) w<sub>rev</sub>, (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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