MODULE -1 EXAMPLES

Q. Find the integrating factor of

1) $\left(xy^2 - e^{\frac{1}{x^3}} \right) dx - x^2 y \, dy = 0$

2) $[3x^2y^4 + 2xy]dx +[2x^3y^3 - x^2]dy = 0$

3) $\{y - xy^2\}dx - \{x + x^2y\}dy = 0$

4) $y[x + y]dx - x[y - x]dy = 0$

5) $\dfrac{dy}{dx} = \dfrac{x^2y^3 + 2y}{2x - 2x^3y^2}$