Engineering Mathematics

Homework 3

1.
$$Solve: (e^{2y} - y\cos xy)dx + (2xe^{2y} - x\cos xy + 2y)dy = 0$$

2. Solve:
$$\frac{dy}{dx} = \frac{1}{3y^2 - 3xy^2}$$

3.
$$Solve: xydx + (2x^2 + 3y^2 - 20)dy = 0$$