

1.1.

1.  $xydx + x\sqrt{4 - y^2}dy = ydx$

2.  $xy' - y = x \cos^2(y/x)$

3.  $y' - y \operatorname{ctg} x = \sin x, y(\pi/2) = 1$

4.  $y''x \ln x = y'$

5.  $(y')^2 = (y - 1)y'', y(1) = 2, y'(1) = 1$