1. 
$$y' = y(4x - 3)$$
.

Ats.: 
$$y = Ce^{2x^2 - 3x}$$
.

2. 
$$t^4s' + 3s = 0$$
,  $s(1) = e$ .

Ats.: 
$$s = e^{1/t^3}$$
.

3. 
$$xy dx + (x+1) dy = 0$$
.

Ats.: 
$$y = Ce^{-x}(x+1)$$
;  $x = -1$ .

4. 
$$xy' + y = y^2$$
,  $y(1) = 0.5$ .

Ats.: 
$$y(1 - Cx) = 1$$
;  $y = 0$ .  $y(1 + x) = 1$ .