

## Even Solutions

2. linear

4. exact

6. exact

8. linear (in  $r$ )

10. exact,  $y = \frac{C-3x}{x^2-1}$

12. exact,  $e^x \sin(y) - x^2 + y^{1/3} = C$

14. exact,  $e^t y - te^t + e^t + y = C$ , or  $y = \frac{C+te^t-e^t}{e^t+1}$

16. See quiz # 3 solutions

18. exact,  $x^2 + xy^2 - \sin(x+y) - e^y = C$

20. exact,  $2 \arcsin(x) + \sin(xy) - \frac{3}{2}y^{2/3} = C$

22. See quiz # 3 solutions

24.  $x(t) = \frac{e-t}{e^t-1}$

26.  $x \tan(y) - 2x + \ln |y| = 0$

28. (a)  $N(x, y) = x \cos(xy) + C(y)$ , (b)  $N(x, y) = xe^{xy} - x^4 + C(y)$