Even Solutions

2. linear

4. Separable and linear. $y = C(t^2+1)^{1/2}e^{arctan(t)}$

6. neither

8. $y = \frac{1}{2}e^{3x} + Ce^x$

10. $r = \tan(\theta)\sin(\theta) + C\cos(\theta)$

12. $y = \frac{1}{3}x^3 e^{-4x} + Ce^{-4x}$

14. see quiz #3 solution

16. $y = \sqrt{\frac{1+x}{1-x}} + Ce^{-x}$

18. $y = \frac{1}{3}e^{-x} + e^{-4x}$

20. $y = \frac{3}{5}x^2 - \frac{1}{2}x + \frac{.9}{x^3}$

22. $y = -x\cot(x) + 1 + \csc(x)$