4. Uvod u diferencijalne jednadžbe, 3. dio - Rješenja

1. $y = -\frac{1}{2}\frac{\cos 2x}{\cos x} + \frac{c}{\cos x}$.
2. $xy = ce^{\sin y} - 2a\left(\sin y + 1\right)$.
3. $y = \sin x - 1 + ce^{-\sin x}$, $c = e$, $y = \sin x - 1 + e^{1-\sin x}$.
4. $y = \left(x + c\right)e^{x}$.
5. $y = \frac{x^3 + 3x + c}{\left(x^2+1\right)^2}$.
6. $y = 2 + c\left(1 - x^2\right)$, $c = -3$, $y = 2 - 3\left(1 - x^2\right)$.
7. $xy = \left(x^3 + c\right)e^{-x}$.
8. $y = cx + x\sin x$.
9. $y = \frac{1}{\sqrt{1 + x^2 + ce^{x^2}}}$.
10. $c = \frac{1}{\sqrt[3]{c\cos^3 x - 3\sin x\cos^2 x}}$.
11. $\frac{1}{y^2} = e^{-x^2}(2x + c)$.
12. $\frac{1}{x} = 2 - y^2 + ce^{-\frac{y^2}{2}}$.
13. $y = \frac{1}{x\sqrt[3]{3\ln\frac{c}{x}}}$.
14. $y = \frac{1}{2\left(\ln x + 1\right) + cx}, c = -1, y = \frac{1}{2(\ln x + 1) - x}$.
15.
16.
17. $y_1 \approx 2.092, y_2 \approx 2.8515, y_3 \approx 3.5373, y_4 \approx 4.2637$.
18. $y_2 \approx 0.25, y_5 \approx 0.415$.

19. $y \approx 1.05484$
20. $y \approx 4.28982$