

Equações Diferenciais: Gabarito

EDOs de 1a ordem Separáveis

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Versão: 20150724

1. (a) $y = Ke^{2x}$
(b) $y = Ke^{\frac{2}{3}x}$
(c) $y = Ke^{2x} - \frac{1}{2}$
(d) $y = Ke^{10x} - \frac{1}{5}$
(e) $y = Ke^{-x} + \frac{1}{2}$
(f) $y = Ke^{\frac{4}{3}x} + \frac{5}{4}$
(g) $y = Ke^{-\frac{2}{3}x} - \frac{3}{4}$
(h) $y = Ke^{\sqrt{3}x}$
(i) $y = Ke^{2\pi x}$
(j) $y = Kx$
(k) $y = Ke^{x^2}$
(l) $y = Ke^{\sin x}$
(m) $y = Ke^{-x}x^x$
(n) $y = Ke^{rx} - \frac{a}{r}$
2. (a) $y = \frac{1}{x + K}$
(b) $y = \pm\sqrt{x + K}$
(c) $y = \pm\sqrt{2x + K}$
(d) $y = \pm\sqrt{x^2 + K}$
(e) $y = Ke^{\frac{x^3}{3}}$
(f) $y = -\frac{2}{x^2 + K}$
(g) $y = -\frac{3}{x^3 + K}$
(h) $y = \pm\sqrt{2\ln x + K}$