## Equações Diferenciais: Gabarito EDOs de 1a ordem Separáveis

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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) 
$$y = Ke^{x^2}$$

(1) 
$$y = Ke^{\operatorname{sen}x}$$

(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) 
$$y = Ke^{\frac{x^3}{3}}$$

$$\text{(f) } y = -\frac{2}{x^2 + K}$$

(g) 
$$y = -\frac{3}{x^3 + K}$$

(h) 
$$y = \pm \sqrt{2 \ln x + K}$$