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Consider the differential equation $\frac{dy}{dx} = xy^2$.

a. Find the general solution of the given differential equation in terms of a constant C.

b. Find the particular solution of the differential condition that satisfies the initial condition y(0) = 1.

Consider the differential equation $\frac{dy}{dt} = 5y - 5$.

a. Draw a slope field for -3 < t < 3.

b. Solve the differential equation given y(0) = 5.

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1. Find the equation of the tangent line to the curve $y=\frac{3x+4}{4x-3}$ at the point (1, 7).	2. $\int_0^3 \frac{x}{\sqrt{x^2+16}}dx$
3. Find the average value of $\sqrt{3x}$ on the closed interval [0, 9].	4. $\frac{d}{dx}\int_0^{2x}(e^t+2t)dt$
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