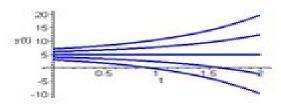
$$\frac{dy}{y-5} = dt.$$

Integrating both sides of this equation results in $\ln|y-5|=t+c_1$, or equivalently, $y-5=c\,e^t$. Applying the initial condition $y(0)=y_0$ results in the specification of the constant as $c=y_0-5$. Hence the solution is $y(t)=5+(y_0-5)e^t$.

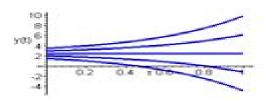


All solutions appear to diverge from the equilibrium solution y(t) = 5.

2(b). Rewrite the differential equation as

$$\frac{dy}{2y-5} = dt.$$

Integrating both sides of this equation results in $\frac{1}{2}ln|2y-5|=t+c_1$, or equivalently, $2y-5=c\,e^{2t}$. Applying the initial condition $y(0)=y_0$ results in the specification of the constant as $c=2y_0-5$. Hence the solution is $y(t)=2.5+(y_0-2.5)e^{2t}$.



All solutions appear to diverge from the equilibrium solution y(t) = 2.5.

2(c). The differential equation can be rewritten as

$$\frac{dy}{2y-10} = dt.$$

Integrating both sides of this equation results in $\frac{1}{2}ln|2y-10|=t+c_1$, or equivalently, $y-5=c\,e^{2t}$. Applying the initial condition $y(0)=y_0$ results in the specification of the constant as $c=y_0-5$. Hence the solution is $y(t)=5+(y_0-5)e^{2t}$.

Boyce Differential Equations Solution Manual

William E. Boyce

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