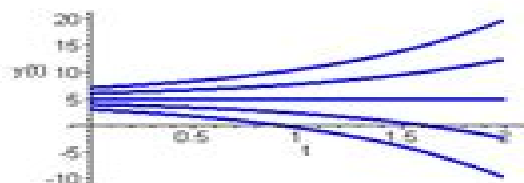


$$\frac{dy}{y-5} = dt.$$

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 $y(t) = 5 + (y_0 - 5)e^t$.

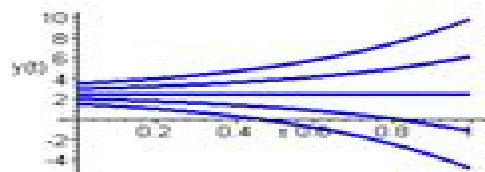


All solutions appear to diverge from the equilibrium solution $y(t) = 5$.

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 $y(t) = 5 + (y_0 - 5)e^{2t}$.

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