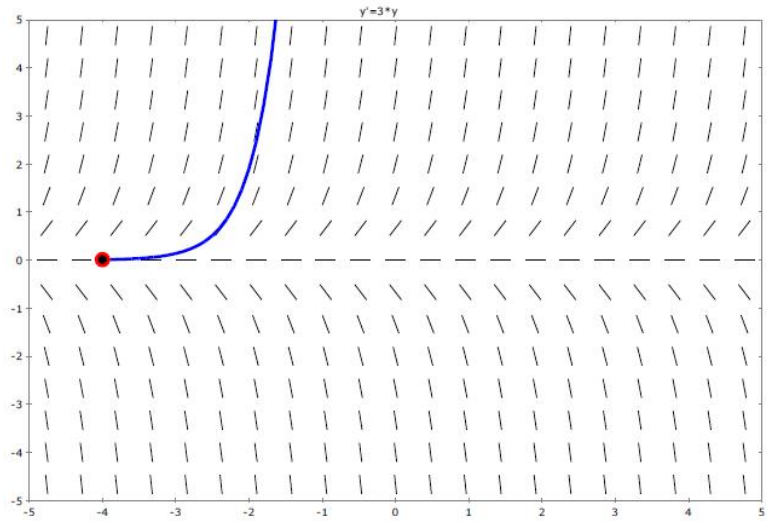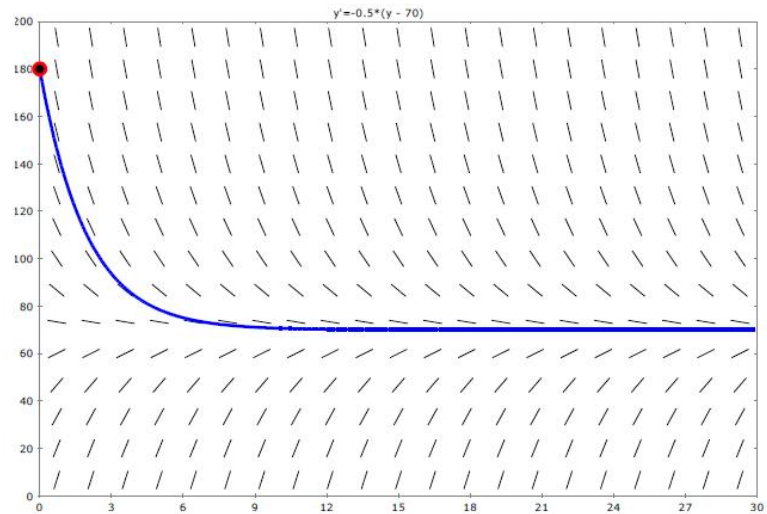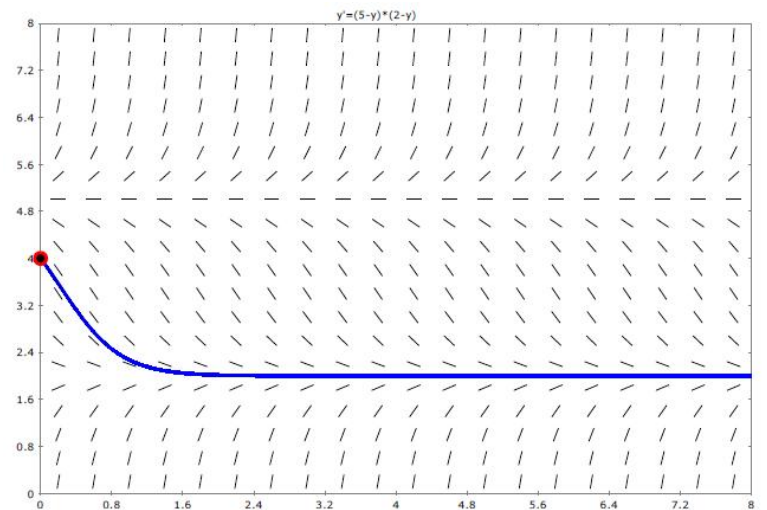# Slope Field Examples

1. $\dfrac{dy}{dt} = 3y$
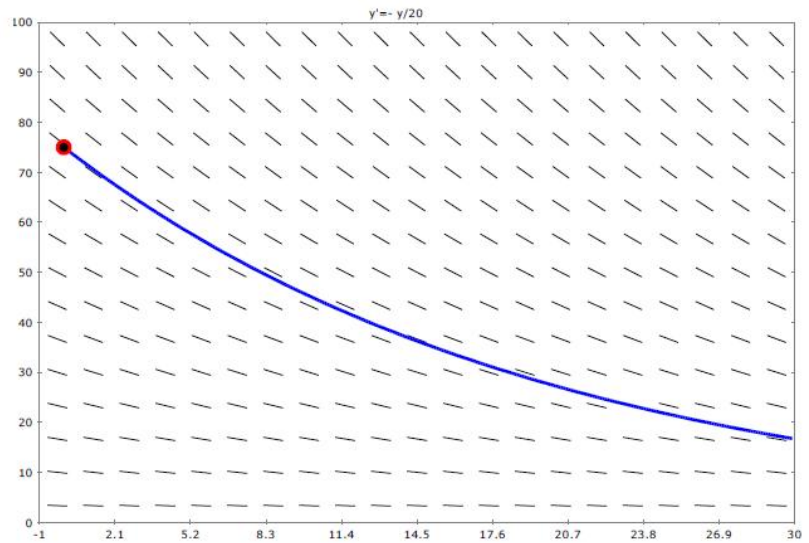

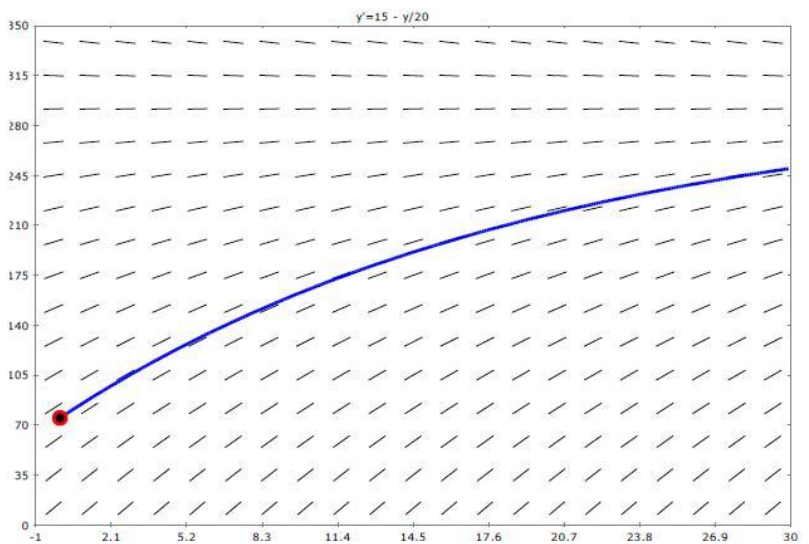2. $\dfrac{dT}{dt} = -0.5(T - 70)$
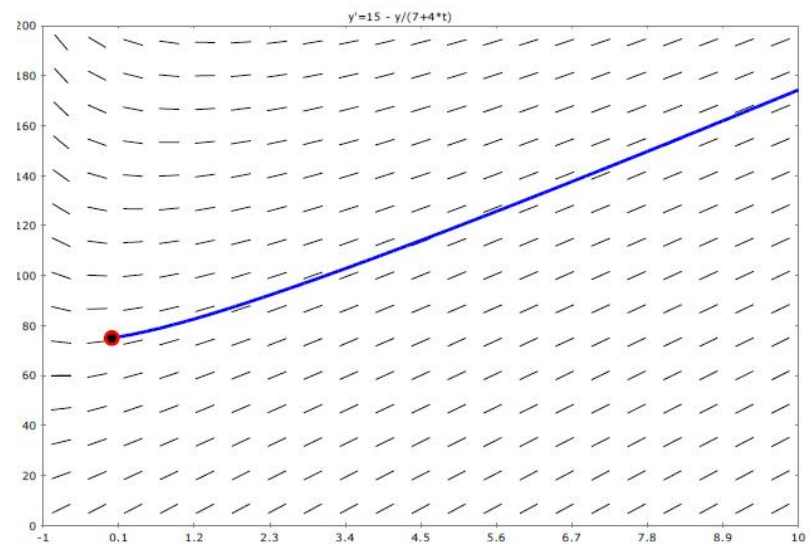

3. $\dfrac{dy}{dt} = (5 - y)(2 - y)$

4. $\dfrac{dy}{dt} = -\dfrac{y}{20}$
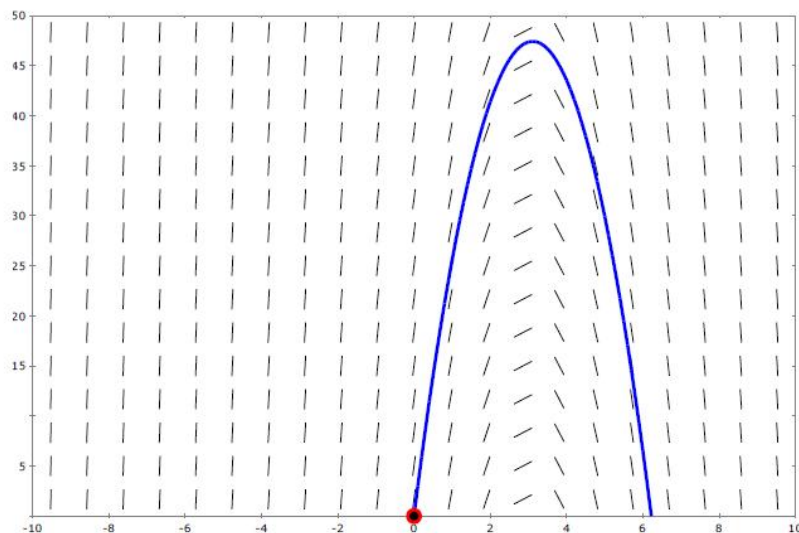

5. $\dfrac{dy}{dt} = 15 - \dfrac{y}{20}$

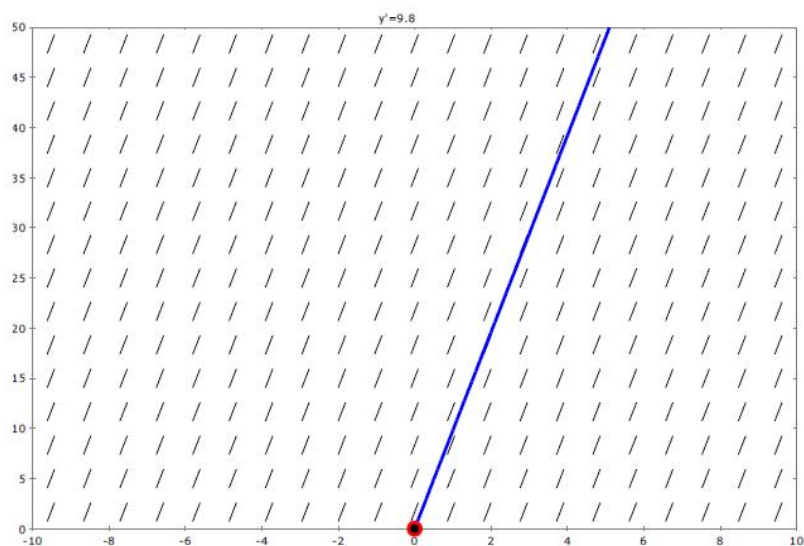
6. $\dfrac{dy}{dt} = 15 - \dfrac{y}{7 + 4t}$
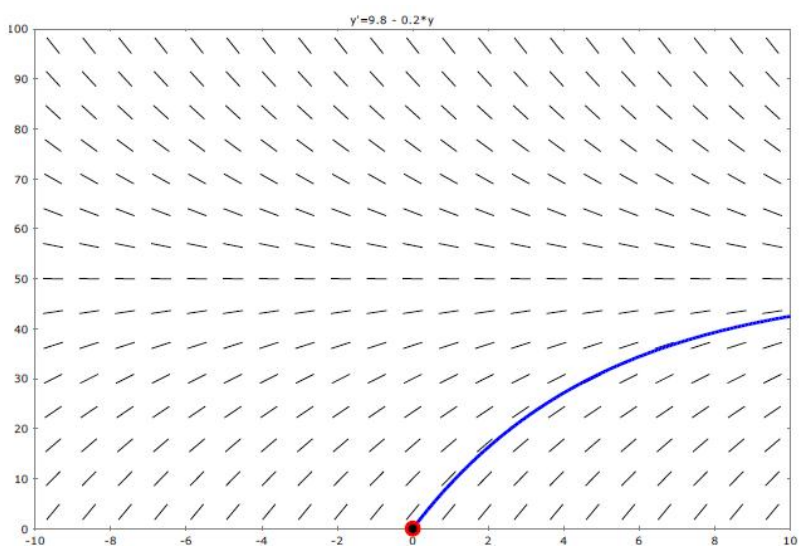
7. $\dfrac{dh}{dt} = -9.8t + 30$

$y'(t, and) = \underline{-9.8\text{*}t+30}$

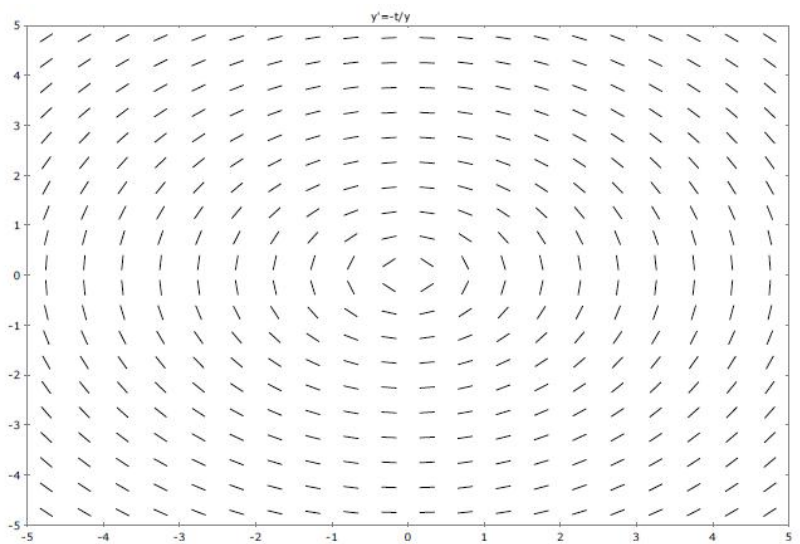

8. $\dfrac{dv}{dt} = 9.8$

y'=9.8

9. $\dfrac{dv}{dt} = 9.8 - 0.2v$

y'=9.8 - 0.2*y

10. $\dfrac{dV}{dt} = -\sqrt{V}$
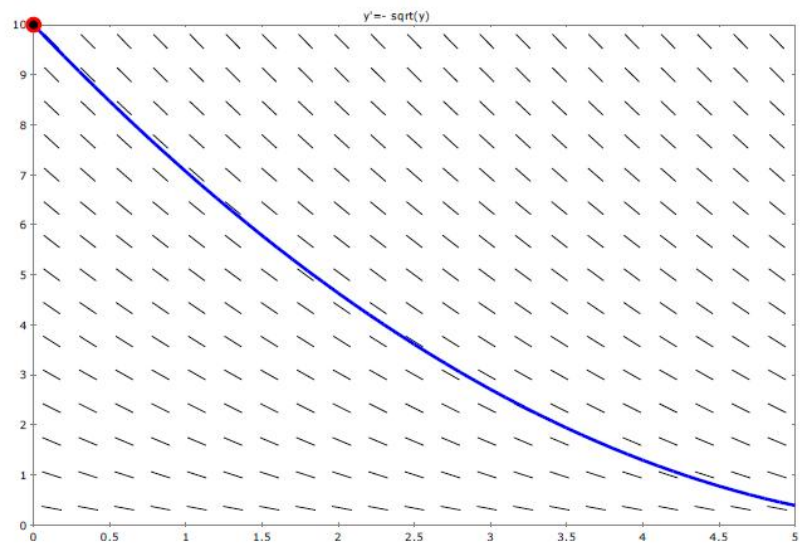
11. $\dfrac{dy}{dt} = -\dfrac{t}{y}$

12. $\dfrac{dy}{dt} = t^2 y^2 - ty^3 + \cos(t)$