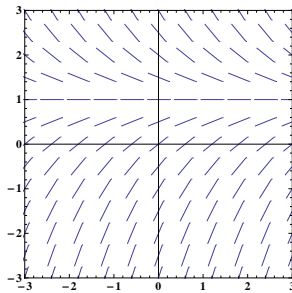


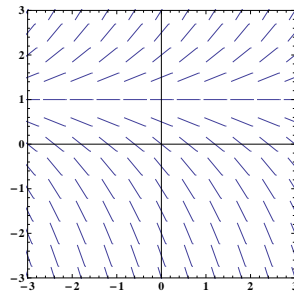
9. [12 points] Match each of the following differential equations with its possible slope field. Circle your answers. No justification is required.

(a)  $y' = ay$  with  $a > 0$ . I      II      III      IV

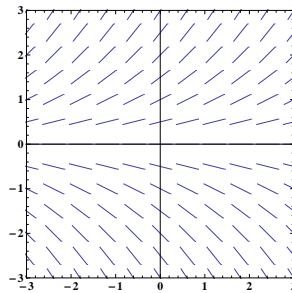
(b)  $y' = k(y - a)$  with  $a > 0$  and  $k < 0$ . I      II      III      IV



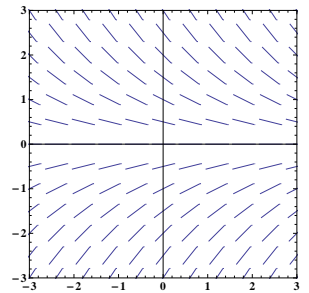
I



II



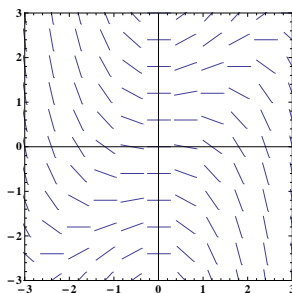
III



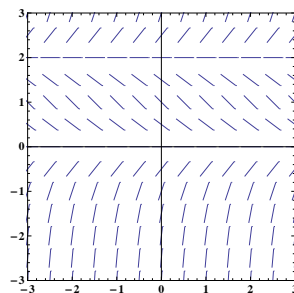
IV

(a)  $y' = x(y - ax)$  with  $a > 0$ . V      VI      VII      VIII

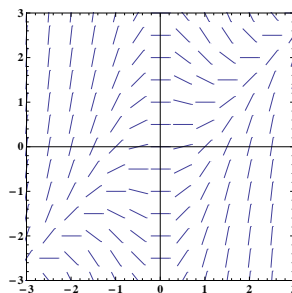
(b)  $y' = ay^2 - y$  with  $a > 0$ . V      VI      VII      VIII



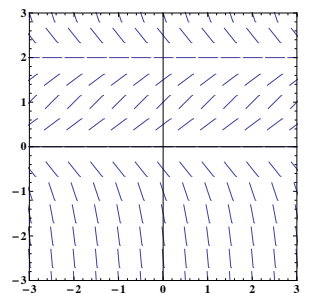
V



VI



VII



VIII