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If we let  $a = a_r$ ,  $b = b_r$ , and  $s = s_r$ , then the  
dynamics of the scalar projections  $(a; b)$   
obeys,  $\frac{d}{dt} a = b(s - ab)$ ;  $\frac{d}{dt} b = a(s - ab)$ :

(8) Thus our ability to decouple the  
connectivity modes yields a dramatically  
simplified two dimensional non-linear

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2.2 Fixed Points and Stability Analyze the following equations graphically. In each case, sketch the vector field on the real line,

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find all the fixed points, classify their stability, and sketch the graph of  $x(t)$ . 2.2.1

$x' = 4x^2 - 16$  The analytical solution is:

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has.  $u = \frac{1}{x+C}$  as a general solution (and also  $u = 0$  as a particular solution, corresponding to the limit of the general solution when  $C$  tends to infinity). The equation is nonlinear because it may be written as.  $\frac{d u}{d x} + u^2 =$

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$$0. \left\{ \frac{du}{dx} + u^2 \right\} = 0$$

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Nonlinear system - Wikipedia

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