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In [1]: using Interact
using Gadfly
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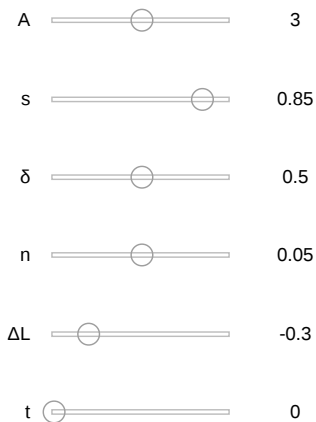
## The Solow-Swan Model

Key Equation

$$\partial k/k = A \cdot s \cdot y/k - (s \cdot \delta + n)$$

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In [3]: k_domain = linspace(0, 10, 100)

@manipulate for A in 1:5, s in 0:0.05:1, δ in 0:0.05:1, n in 0:0.01:0.1, ΔL in -.5:.1:.5, t in 0:2:25
  plot(
    # Initial State
    layer(x=[5], y=[.5*.5+.05], Geom.point, Theme(default_color=colorant"black", line_width=1pt)),
    layer(xintercept=[5.0], Geom.vline(color="black", style=[:1mm], size=[.5mm])),
    layer(yintercept=[.5*.5+.05], Geom.hline(color="black", size=[.5mm])),
    layer(x=k_domain, y=3*.5*(1/k_domain), Geom.line, Theme(default_color=colorant"black", line_width=1pt)),
    # Changing
    layer(x=[(A*s)/(s*δ+n)*(1+ΔL/(t+1))], y=[s*δ+n], Geom.point, Theme(default_color=colorant"red")),
    layer(xintercept=[(A*s)/(s*δ+n)*(1+ΔL/(t+1))], Geom.vline(color="red", style=[:1mm], size=[.5mm])),
    layer(yintercept=[s*δ+n], Geom.hline(color="red", size=[.5mm])),
    layer(x=k_domain, y=A*s*(1/(k_domain/(1+ΔL/(t+1)))), Geom.line, Theme(default_color=colorant"red", line_width=1pt)),
    # Configuration
    Coord.Cartesian(xmin=0,xmax=10,ymin=0,ymax=1),
    Guide.xlabel("k = K/L (capital per worker)",),
    Guide.ylabel("Determinants of Δk/k")
  )
end
```



Out[3]:

