```
In [6]:  using Interact
         using Gadfly
```

The Solow-Swan Model

Key Equation

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

```
In [60]:  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, y in 0:0.1:2
              plot(
                  # Initial State
                  layer(x=[5], y=[.5*.5+.05], Geom.point, Theme(default_color=colorant"black", line_widt
                  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",
                  # Changing
                  layer(x=[(A*s*y)/(s*δ+n)], y=[s*δ+n], Geom.point, Theme(default_color=colorant"red")),
                  layer(xintercept=[(A*s*y)/(s*δ+n)], Geom.vline(color=["red"], style=[[1mm]], size=[.5m
                  layer(yintercept=[s*δ+n], Geom.hline(color=["red"], size=[.5mm])),
                  layer(x=k_domain, y=A*s*(y/k_domain), Geom.line, Theme(default_color=colorant"red", li
                  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
```

A   —◯—   3

s   —◯—   0.8

δ   —◯—   0.5

n   —◯—   0.05

y   —◯—   1.0

Out[60]: