- a) $g(v1*1 + v2*z1 + v3*z2) \rightarrow v1 + (w1+w3*x1+w5*x2)*v2 + (w2+w4*x1+w6*x2)*v3$
- b) M = v1+v2*w1+v3*w2, n = v2*w3+v3*w4, o = v2*w5+v3*w6
- c) Because it is linear, adding more layers does not change the expressive power.
- d) No, because it is non linear
- e) Expressive power increases with added layers
- f) Differentiable, Non linearity