Bradley Reardon Time Series HW 7 3/30/22

•	1. a.) $y(t) = 0.5(t-1) = e(t) + 0.8(e)(t-1)$ $b_1 = 0.8$
	1. a.) $y \in [-0.5] = y \in [1+.8]$ $y = y \in [-0.5] = 3 \cdot 1.8 = 7.3$ y = 0.5 = 7.3
	ry(e) -0.5ry(t-1) = rye(t) + 0.8 rye(t-1)
	(ye(t) = { g(t) · \sigma_e^2 : t & \sigma_e^2 \ g(t)5g(t) = \sigma_e^2 + 8d(t) \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
	$rye(0) = g(0) \cdot \sigma_e^2 = 1 \cdot 1 = 1$ $rye(1) = g(1) \cdot \sigma_e^2 = 1.3$ $g(1) = 1.3$ $g(1) = 1.3$
	t=0 ry(0)5 ry(1)= rye(0) + 18rye(-1) ry(0)5ry(1)= 1+.8.1,3 = 2.64
	tu) ry(1) 500) = rye(1) + .8 rye(0) - 5 1 ry8
	ry(0) = 3.25 + variance
	t(1)= ry(2)5 ry(1) = rye(2) + .8 rye(1)
	ry(0) = .5ry(1) $ry(0) = 1.21$
	1.6.) ACF = (1 3.25 1 3.25) 1.c values are the same 05ting python

