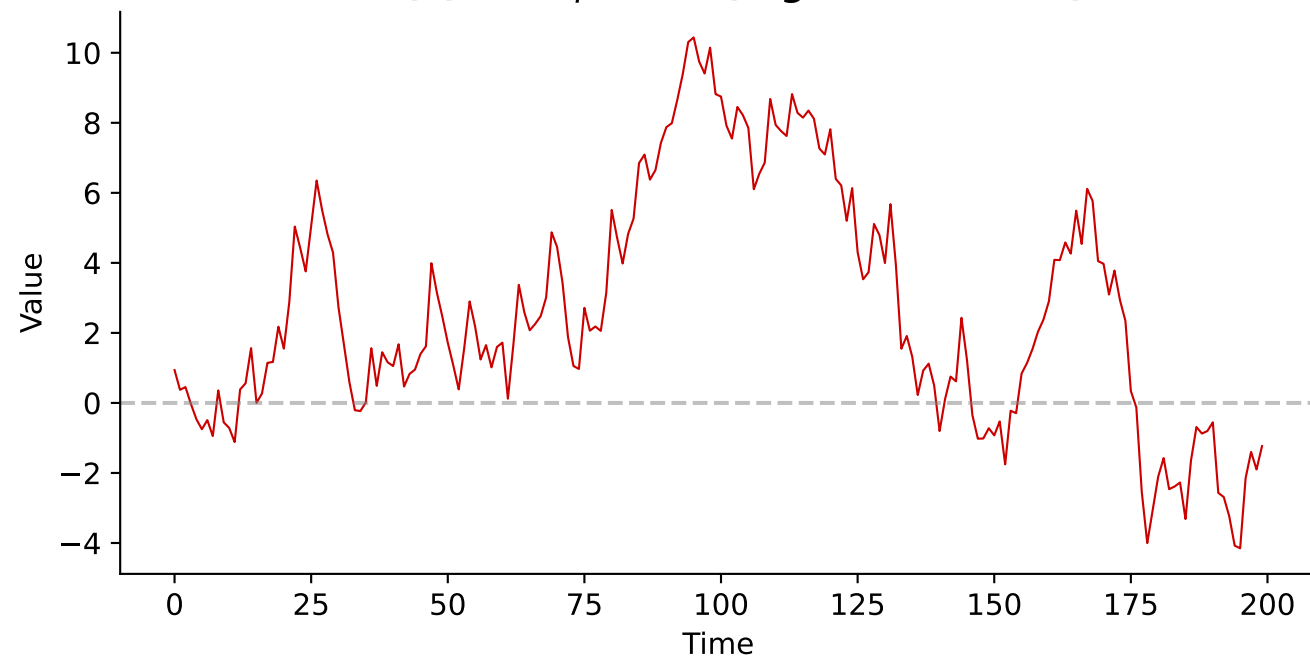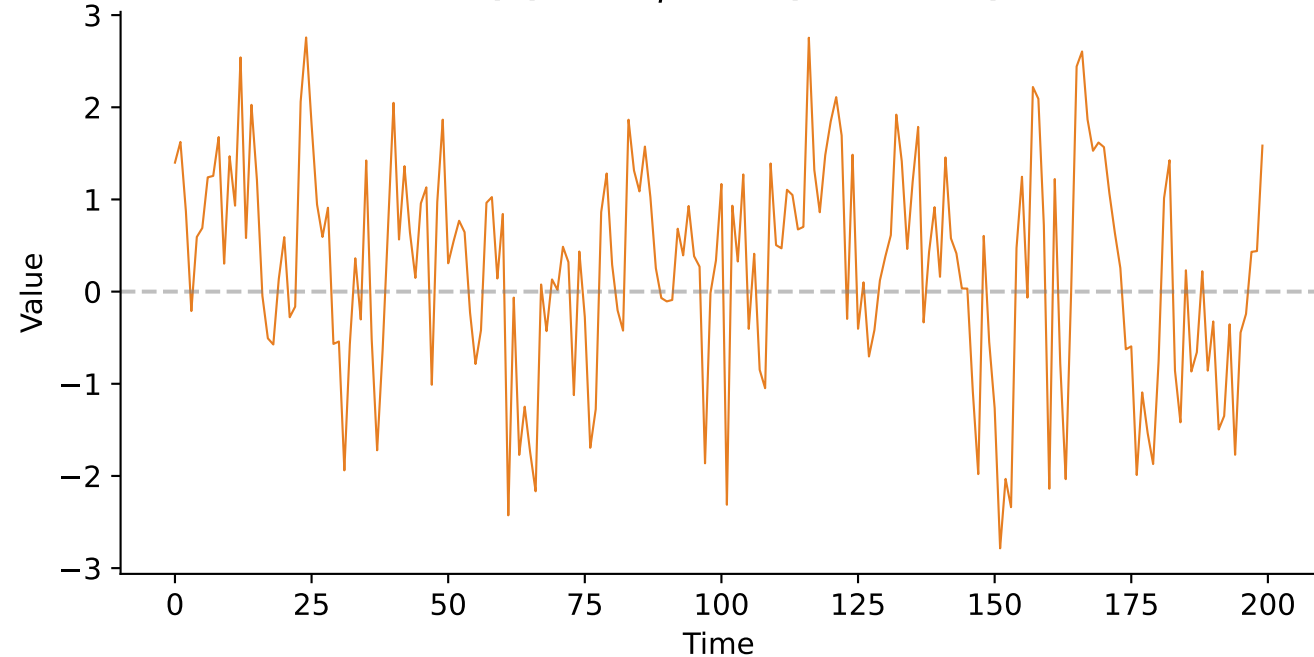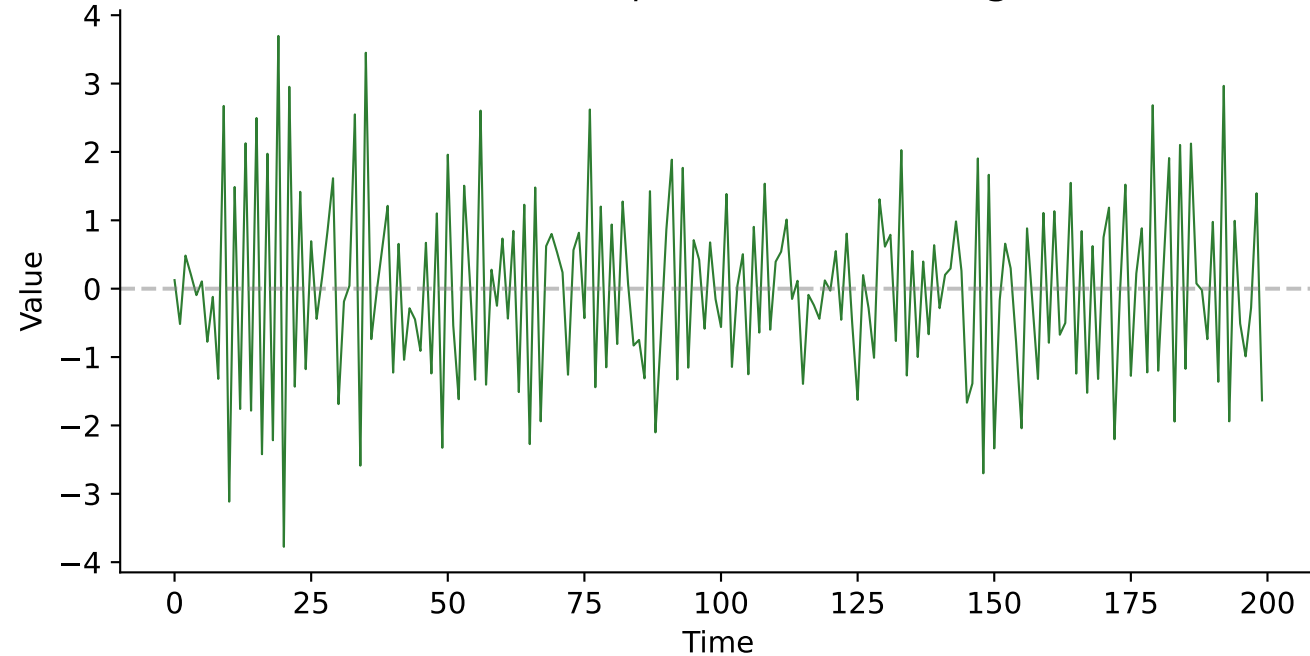**AR(1) with $\phi = 0.95$ (High Persistence)**
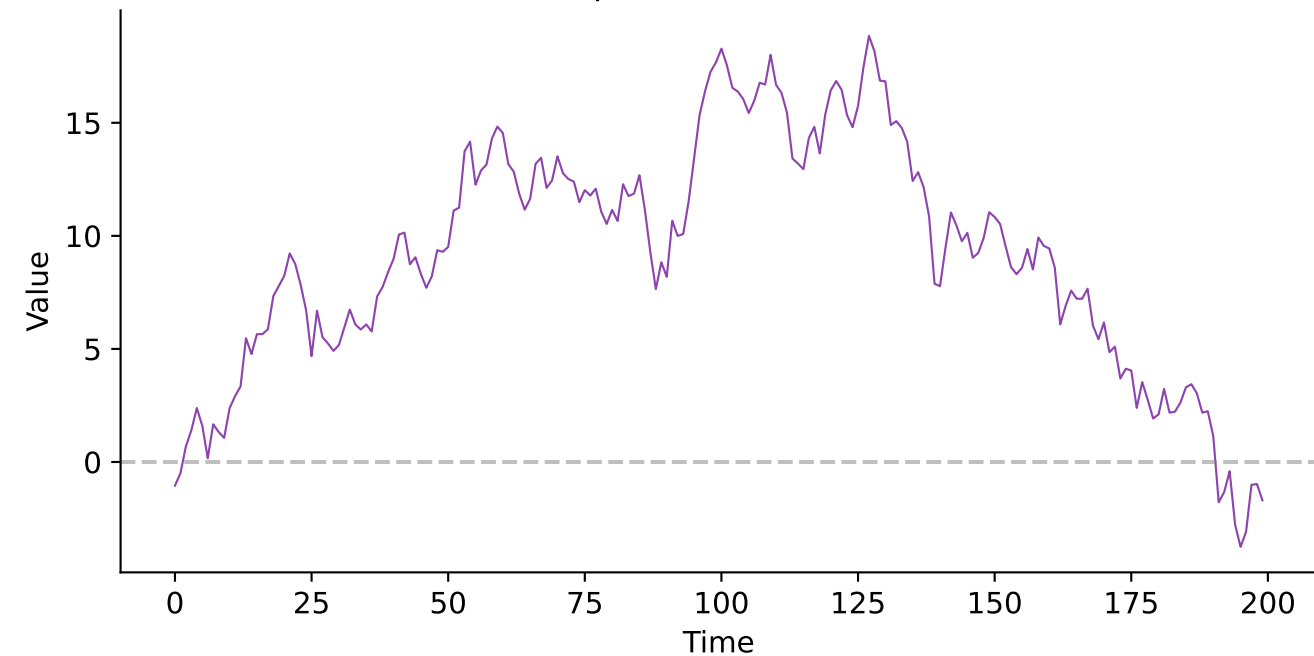
AR(1) with $\phi = 0.5$ (Moderate)

AR(1) with $\phi = -0.7$ (Oscillating)

AR(1) with $\phi = 0.99$ (Near Unit Root)

$\varphi = 0.95$ $\varphi = 0.5$ $\varphi = -0.7$ $\varphi = 0.99$