3. (Exercise 2.11 in Coyen & Chan) Suppose Cor (Xe, Xtx) = Tk,

Which is free of t, but that E(Xt) = 3t.

(a) Is the process {Xt} Stationary?

No. We depends on t.

(b) Let Yt = 7-3t + Xt. Is {Yt} Stationary?

1. Mt = E(7-3t+Xt) = 7-3t+3t=7 V

2. Cov (Xt, Xtx) = Tk, which is free of t (given) V

> Yes.