71 puler !! 2022-01-13 Ynp Random walk V ( = y+ 1 + 1 y, y<sub>2</sub> y<sub>3</sub> y<sub>4</sub> ue~ N(0;4) Fe = 3 (yt, yt-1, yt-2, Us = 45-4,-1 U6 he jal or 45, 4,... Myal or (74-1) a) E (y5 | Fy), Vou (y5 | Fy), PI grus y5 B) E(y6 | Fy), Var (y6 | Fy), reedictive interval. P(ys e PI ] = 0.95 common PI =  $[Hy_5|F_4)$  -  $\Delta; E(y_5|F_4) + \Delta]$  $E(y_5|\mathcal{F}_{y}) = E(y_{y} + u_{5} + 1|\mathcal{F}_{y}) =$ = E (yy + 45 | 7y) + ] = yy+ E (45 | 7y) + |=

yn ys-x b += y

recyal = yy+ E(UJ)+/= yy+1 no yen. Var (45/F4) = Var (44 + 115 + 1/4) = = Vor (yy + Us | Fy) = Voe (Us | Fy) = Var (us) = 4

ye ust si & t = 4

regob

(45 | Fy) ~ N(11; 4) 94+ -1,96 [11-904; 11-198.54] Teff quantile right quantile [11-1.96.54; 11+1.96:14] = p(u f[uliur] uppopul. Ey6 Fy), Vor (y6 Fy), PZ gur y6 Cyr. u Fy Ey f U6 t |  $\overline{fy}$  =  $\overline{$ 

$$P(y_{5} > m \mid F_{4}) = 0, S$$

$$P(h_{10} + 1; 4) > h_{10} + 1 \mid F_{4}) = 0, S$$

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$$P(h_{10} + 1; 4) = 0, S$$

$$P(h_{10} +$$



