11.55: Bee- Tohnston & Clauser Find: ay, as, as when A is 10 in to the right VB and XR after 45. Use: Relative motion and constant accel egus -3 XA + 2 Xg=0 VB = 61=/5 Xp = 2 VA(10)= 2.4 16/5 -- VAO = 3 V80 = 4 15/5 ap st= = >Va an st = -1.6 m/s, an = -1.6 Constaccel reans = Xa= VAst+ 5 st2 QA 10 = 4 st + 20 st2 10 = 4 st + \$ (-1.6) st st = 4-8 = 3.125 sec ap = -1.6 -0.5/2 /2/5= ag = 3 an = -0,768 10/52 ap=-aA, so ap= 0.512 11/52 Vg(4)=6+40g= 2,93 16/5 ≥ X8 = 6.4+ 5 42 ag = 17.86 in