Take-home tutorial 4 @2

VX = (0.25A)(5-2) = 1.25V Cullent through the 20-12 nesistor =0.5A

Take-home tutorial 4 question 5

KUL (1) $-50 + I_1(5) + 10 = 0$ II = 40 = 8A $500 + \frac{1}{100} = 0$ $500 + \frac{1}{100} = 0$ $T_{(52)} = \frac{70V}{15R} = 4.67A$ $\frac{P_{(15.2)}}{P_{(15.2)}} = \frac{V^2}{P_{(15.2)}} = \frac{70^2}{15} = \frac{4900}{15} = 326.7$ Wast

Take-home tuborisi 4 Quest. 10 3A 3A 3A The state of the state of

Take-home tutorial 4 question 16 $3n \stackrel{3}{=} \stackrel{7}{\stackrel{1}{=}} \stackrel{7}{\stackrel{1}{=}} \stackrel{1}{\stackrel{1}{=}} \stackrel{1}{\stackrel{1}{\stackrel{1}{=}} \stackrel{1}{\stackrel{1}{=}} \stackrel{1}{\stackrel{1}{=}} \stackrel{1}{\stackrel{1}{=}} \stackrel{1}{\stackrel{1}{\stackrel{1}{=}} \stackrel{1}{\stackrel{1}{=}} \stackrel{1}{\stackrel{1}{\stackrel{1}{=}} \stackrel{1}{\stackrel{1}{=}} \stackrel{$ At node V, $I_1 = I_3 + J_2$ $\frac{0-5-V_1}{3} = \frac{V_1}{7} + \frac{V_1-10}{10}$ (4210) -70V,-350 = 30V, +21V, -210 12/V, = -140 $V_1 = -1.157$ V(3e)= V,-(-5) = -1.157+5 (3.2) = + 3.84 V V(72)= V,= -1-157V Ma V(10-2) = V, -10V = -1.157-10 V(102) = -11.157V