2.6 al AA al A= fili) a ((fili)) = (fili) = (Vii) b) (14i) - (74i 2 Vi-i) a) A+A=(10)(1)=1 $0^{+}B = (61)(0) = 1$ $AA^{+}-BB^{+}= \begin{bmatrix} 1 & (7 & 0) & -(0) & (0 & 1) & -(0 & 0) & -(0 & 1) & -(0 &$ $A^{+}A = (\frac{1}{2} \frac{1}{2} \frac{1}{2}) (\frac{1}{2} \frac{1}{2}) = \frac{1}{2} + \frac{1}{2} = 1$ $A^{+}A = (\frac{1}{2} \frac{1}{2}) (\frac{1}{2} \frac{1}{2}) = \frac{1}{2} + \frac{1}{2} = 0$ $A^{+}A = (\frac{1}{2} \frac{1}{2}) (\frac{1}{2} \frac{1}{2})$ $A^{+}A = (\frac{1}$ = [w] b1 A+ A = (7 7/2) (2/2) = 1 + 2 = 1

2.8 c/ (3/2 - i/2) (3/2) = 2 - i/2 = 0 BB = (m 1/2) (m) = 2 - 2 - 0 AAT-BBT = [1/2] (1/12 i/12) = (1/12 i/12) = (1/12 i/12) - (= -1/2) - (-1/2) - (0 0 - i) 3.4a) \$420 \(\text{3.72} \) $|u7^{\dagger}|v7 = (3-2i-i-i-0)|1-i-i-(3-2i)(1-i)-i(2+3i) = (3-2i)(1-i)-i(2+3i) = (3-2i)(1-i)-i(2-2i)(1-i)-i(2-2i) = (3-2i)(1-2i)-i(2-2i) = (3-2i)(1-2i)-i(2-2i) = (3-2i)(1-2i)-i(2-2i) = (3-2i)(1-2i)-i(2-2i)(1-2i)-i(2-2i) = (3-2i)(1-2i)-i(2-2i) = (3-2i)(1-2i)-i(2-2i)(1-2i) = (3-2i)(1-2i)-i($ 3,5 a1 (10) (0) = 0 over b-)(1/12 1/2) (1/2) = 1 - 2 - 0 och 01 = 13 (7 7 11 (7) = = = = 73 .7 = = = 73 mod order d/ 3 (1-i) [1] = 1+i2=1-1=0 over

