2 a) stability = ?

$P(s) = s^4 + 2s^3 + 3s^2 + 4s + 5$

+	4	1	3	5	
+	3	2	4		
+	2	1	5		
-	1	-6			
+	0	5			

two sign changes

$b_{n-1} = -\frac{(4 \cdot 4 - 2 \cdot 3)}{2} = 1$

$b_{n-3} = -\frac{(1 \cdot 0 - 2 \cdot 3)}{2} = 5$

$c_{n-1} = -\frac{(2 \cdot 5 - 1 \cdot 4)}{1} = -6$

$d_{n-1} = -\frac{(1 \cdot \phi - (-6) \cdot 5)}{(-6)} = 5$

P(s) Has two roots with real parts, it indicates that the P(s) is unstable.