Name: Vignesh Rig No: RA1811026010040 CSE-AI 0) Find the GCD (512, 320) and empress it as a linear combination of 512 and 320. solo using Euclids method we have 512 = 1×320 + 192 320 = 1×192 + 128 192 = 1x 128 + 64 178 = 2864 +0 we have own remainder = 0 for 64 thus ged (512, 320) = 64 Now, wing the equations used in rudides method 64 = 192 - 1(128) - 0 lul 128 - 320 - 1 (198) -8 192 = 512 - 320 -0 Thus eq is = 2(192) -320

64 = 192 - 1(128) = 192 - 1(320 - 192) [from eq G3 = 2(192) - 320 = 2(512 - 360) - 320 = 2(512) - 3(320) 64 = 2(512) - 3(320) 2 = 2(512) - 3(320) 64 = 2(512) - 3(320) 2 = 2(512) - 3(320) 2 = 2(512) - 3(320) 3 = 2(512) - 3(320) 4 = 2(512) - 3(320) 4 = 2(512) - 3(320) 4 = 2(512) - 3(320) 4 = 2(512) - 3(320)