

1. (a) Use the GCD algorithm to compute the greatest common divisor of 546 and 416 [4]
- (b) Use your working for the previous part to express $416/(-546)$ as a rational m/n where $n \geq 1$ and $\gcd(m,n)=1$ [2]
- (c) Express 131 in binary notation. [2]
Express -131 in 2's complement notation, using 10 bit representation.