

Fall 2017 COT 3100 Section 1 Quiz #2 (First Quiz that counts)

Name: _____

Lab Section: 18-T12 20-T1 22-T2 19-R12 21-R1 23-R2 24-F3:30

1) (4 pts) What is the value of 6203_8 when converted to base 10?

2) (6 pts) Convert 1634 in base 10 to hexadecimal (base 16). (Recall that we use A = 10, B = 11, and so forth.)

3) (10 pts) If x and y are integers and $5 \mid (3x + 4y)$, prove that $15 \mid (21x + 18y)$.

4) (5 pts) Determine the greatest common divisor of 707 and 259 using the Euclidean Algorithm. (Credit is give only for the steps of the algorithm. Only 1 pt for the final answer.)
