

### Fall 2019 COT 3100 Homework #3 Grading Criteria - Total 20 points

Three questions to grade carefully:

Question #1 (5 pts)

Question #4 (5 pts)

Question #6 (5 pts)

Q1 (5 pts) - 1 pt for expressing  $n = 2a+1$  for some int  $a$ , 3 pts for the algebra, 1 pt for the conclusion

Items to comment upon: Not properly creating a new variable and stating why, incorrect algebra, improper use of the equal sign (should just manipulate the original expression...)

Q4 (5 pts) - 2 pts for calculating how long it will take for the two people to meet, 3 pts for calculating how far the bird flies in that time. Give full credit to any solution that uses the infinite geometric series that one can calculate as well.

Comment on: The clarity of the explanation. If there is some real math, comment on any inaccuracies or use of symbols. (The infinite geometric series should have a justification as well as the appropriate summation signs.)

Q6 (5 pts) - 3 pts for "breaking up" the expression in a way that 17s can be factored out. 1 pt for subbing in  $17c$  for  $3x+5y$ , 1 pt for factoring out 17 from everything.

Comment on the naming of new variables and the algebra, as well as proper use of the divisibility and equal signs.

Questions 2, 3, 5 and 7 - very quickly eyeball and award 0, 1, 2, 3, 4 or 5 points out of 5. Only give full credit if the explanation for #5 is thorough and correct and the write up is there for number 7.