Assignment5

1.	True or	False	(1pts.	0.5pts	per c	question)
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- A) The class NP consists of those problems that are verifiable in polynomial time.
- B) NP is the class of languages that are not decidable in polynomial time on a deterministic single-tape Turing machine.
- 2. How many characteristics does an algorithm have? What are they? (3pts)
- 3. How many algorithm representations have we learned? What are they? (2pts)
- 4. Ordering the following functions by order of growth. Please give the calculation process. (4 pts)

 $(1.5)^{n}$

log (log n)

2n

 $8n^3 + 17n^2$