CSE 015: Discrete Mathematics Fall 2019 Homework #5 Andre Martin

1. Question 1:

- (a) no
- (b) yes
- (c) no
- (d) yes
- (e) yes

2. Question 2:

(a) $(\log_2 n)^3$, n^{99} , n^{100} , $(1.5)^n$, 10^n , n!

3. Question 3:

(a) n^2

4. Question 4:

- (a) $2^{1000000000}$
- (b) 10^9
- (c) 31622
- (d) 29
- (e) 12

5. Question 5:

- (a) q = 5, r = 4
- (b) q = 21, r = 0
- (c) q = -7, r = 10
- (d) q = -1, r = 22
- (e) q = -24, r = 86
- (f) q = 0, r = 0
- (g) q = 1233, r = 334
- (h) q = -1, r = 1

6. Question 6:

- (a) 6:00
- (b) 9:00
- (c) 19:00

7. Question 7:

- (a) no
- (b) yes
- (c) yes
- (d) no