1. **N1 = N2 = N3**
2. **N1 = N2 < N3**
3. **N1 = N2 > N3**

N1 $\ne $ N2

N1 = N2

N1 = N2

1. **N1 < N2 = N3**
2. **N1 > N2 = N3 ?**

N2 $\ne $ N3

N2 = N3

N2 = N3

1. **N2 > N3 = N1**
2. **N2 < N3 = N1**

N2 > N3

N2 < N3

N2 < N3

Solve 4, 5 Problem

**(1) min = N1 = N2 = N3;**

1. **N1 < N2 < N3**
2. **N1 < N3 < N2**

**(2) min = N1 = N2;** < N3

**(3) min = N3;** N1 = N2

1. **N3 < N1 < N2**
2. **N3 < N2 < N1**
3. **N2 < N3 < N1**
4. **N2 < N1 < N3**
5. **N1 = N2 = N3**
6. **N1 = N2 < N3**

N1 $\ne $ N2

1. **N1 = N2 > N3**
2. **N1 < N2 = N3**
3. **N1 > N2 = N3**

N2 = N3

N2 $\ne $ N3

N2 = N3

1. **N2 > N3 = N1**
2. **N2 < N3 = N1**

N1 $>$ N2

N1 $<$ N2

N1 < N2

1. **N1 < N2 < N3**
2. **N1 < N3 < N2**

Solve 6, 7, Problem

**(5) min** = N2 = N3;N1

**(4) min = N1;** N2 = N3

1. **N3 < N1 < N2**
2. **N3 < N2 < N1**
3. **N2 < N3 < N1**
4. **N2 < N1 < N3**
5. **N1 = N2 = N3**

N1 $\ne $ N2

N2 $\ne $ N3

1. **N1 = N2 < N3**
2. **N1 = N2 > N3**
3. **N1 < N2 = N3**
4. **N1 > N2 = N3**

N1 $\ne $ N3

N2 $=$ N3

N1 = N3

1. **N2 > N3 = N1**

N2 $<$ N3

N2 $>$ N3

1. **N2 < N3 = N1**

N2 > N3

1. **N1 < N2 < N3**

**(7) min = N2; <** N1 = N3

**(6) min** = N1 = N3;N2 >

1. **N1 < N3 < N2**

Solve 8. 12, 13, Problem

1. **N3 < N1 < N2**
2. **N3 < N2 < N1**
3. **N2 < N3 < N1**
4. **N2 < N1 < N3**
5. **N1 = N2 = N3**

N1 $\ne $ N2

N2 $\ne $ N3 N1 $\ne $ N3

1. **N1 = N2 < N3**
2. **N1 = N2 > N3**
3. **N1 < N2 = N3**
4. **N1 > N2 = N3**

N2 > N3

N2 < N3

N2 < N3

1. **N2 > N3 = N1**

N1 $>$ N2

N1 < N2

1. **N2 < N3 = N1**

N1 < N2

**(7) min = N2;** N1 = N3

N1 $>$ N3

N1 $<$ N3

1. **N1 < N2 < N3**

**(8) min** = N1; < N2 **<** N3

N1 < N3

1. **N1 < N3 < N2**

Solve 9. 10, 11, Problem

**(12) min** = N2; < N3 **<** N1

**(13) min** = N2; < N1 **<** N3

11111

1. **N3 < N1 < N2**
2. **N3 < N2 < N1**
3. **N2 < N3 < N1**
4. **N2 < N1 < N3**
5. **N1 = N2 = N3**

N1 $\ne $ N2

N2 $\ne $ N3 N1 $\ne $ N3 N2 > N3

1. **N1 = N2 < N**
2. **N1 = N2 > N3**
3. **N1 < N2 = N3**
4. **N1 > N2 = N3**

N1 $>$ N3

N1 < N3

N1 < N3

**1**

1. **N2 > N3 = N1**

N1 $<$ N2

N1 $>$ N2

1. **N2 < N3 = N1**

N1 < N2

**(9) min** = N1; N2 **>** N3

1. **N1 < N2 < N3**

**(11) min** = N3; < N2 **<** N1

**(10) min** = N3; < N1 **<** N2

11111

1. **N1 < N3 < N2**
2. **N3 < N1 < N2**
3. **N3 < N2 < N1**
4. **N2 < N3 < N1**
5. **N2 < N1 < N3**