1) Which of the following is the simplest form of \( \frac{(n + 2)!}{(n + 1)!} \)?
   a) \( (n + 2)! \)  
   b) \( (n + 1)! \)  
   c) \( n + 2 \)  
   d) \( \frac{1}{(n + 1)!} \)

2) Which of the following is equivalent to \( 30(4!) \)?
   a) \( 6! + 0! \)  
   b) \( 6! \)  
   c) \( 5! \)  
   d) \( (6 + 1)! \)

3) Which of the following is equivalent to \( \frac{(n + 1)!}{(n - 1)!} \)?
   a) \( \frac{(n + 1)!}{(n - 1)!} = n^2 + n - 1 \)  
   b) \( \frac{(n + 1)!}{(n - 1)!} = n^2 - n \)  
   c) \( \frac{(n + 1)!}{(n + 1)!} = n^2 \)  
   d) \( \frac{(n - 1)!}{(n + 1)!} = n^2 \)

4) \( 1! = a - 3! \), find the value of \( a \).
   a) \( 7 \)  
   b) \( 3 \)  
   c) \( 4 \)  
   d) \( 4 \)

5) What is the HCF of \( n! \), \( (n + 1)! \) and \( (n + 2)! \)?
   a) \( (n + 1)! \)  
   b) \( (n + 2)! \)  
   c) \( (n + 1)! \)  
   d) \( (n + 2)! \)

6) What is the value of \( \frac{7!}{6!} \)?
   a) \( 15 \)  
   b) \( 8 \)  
   c) \( 1 \)  
   d) \( 7 \)

7) Which of the following is a perfect square?
   a) \( 4! - 1 \)  
   b) \( 4! \)  
   c) \( 4! + 8 \)  
   d) \( 4! - 8 \)
1) Which of the following is the simplest form of \( \frac{(n + 2)!}{(n + 1)!} \)?
   a) \((n + 2)!\)  
   b) \((n + 1)!\)  
   c) \(n + 2\)  
   d) \(\frac{1}{(n + 1)!}\)

2) Which of the following is equivalent to \(30(4!)\)?
   a) \(6! + 0!\)  
   b) \(6!\)  
   c) \(5!\)  
   d) \((6 + 1)!\)

3) Which of the following is true?
   a) \(\frac{(n + 1)!}{(n - 1)!} = n^2 + n\)  
   b) \(\frac{n^2 - n}{(n + 1)!} = n\)  
   c) \(\frac{(n - 1)!}{(n + 1)!} = n\)  
   d) \(\frac{(n - 1)!}{(n + 1)!} = n^2\)

4) \(1! = a - 3!\), find the value of \(a\).
   a) 7  
   b) 6  
   c) 5  
   d) 4

5) What is the HCF of \(n!\), \((n + 1)!\) and \((n + 2)!\)?
   a) \((n + 1)!\)  
   b) \((n + 2)!\)  
   c) \(1\)  
   d) \(7\)

6) What is the value of \(\frac{n!}{2}\)?
   a) 15  
   b) 8  
   c) 1  
   d) 7

7) Which of the following is a perfect square?
   a) \(4! - 1\)  
   b) \(4!\)  
   c) \(4! + 8\)  
   d) \(4! - 8\)