1. An example of a Kleene operator is
   (a) Concatenation
   (b) Union
   (c) Star
   (d) All of the above

2. According to the Wikipedia article on Regular Expressions, which of the following is false?
   (a) If \( R \) is a language then \( R^* \) is the smallest superset of \( R \) that contains \( \varepsilon \) and is closed under concatenation.
   (b) In the POSIX syntax, the dollar sign matches the starting position of the string.
   (c) QED was one of the first editors to use regular expressions.
   (d) Some people use a vertical bar to represent “or”.

3. True/False: The empty string is in the star of the empty language.

4. True/False: If there is an FA for a language, then there is an RE for the language, but not vice versa.

5. Consider the RE \((01 + 10 + 0)^*\). A string that is in the language is:
   (a) 00110
   (b) 0101
   (c) 100001
   (d) All of the above

6. Consider again the RE \((01 + 10 + 0)^*\) from the previous question. A string that is NOT in the language is:
   (a) 00000
   (b) 0110
   (c) 1100001
   (d) All of the above

7. True/False: A language can have more than one nondeterministic FA that accepts it.

8. True/False: A nondeterministic FA can accept more than one language.