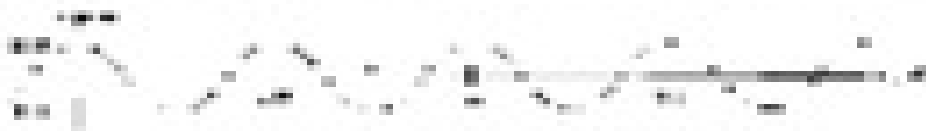


1. Through which of the following is the general solution of the given differential equation obtained?



- a. Characteristic equation of the wave
- b. Characteristic frequency of the wave
- c. Characteristic frequency of the wave
- d. Characteristic period

2. A particular integral of the given differential equation is

- a. $\sin(x) + \cos(x)$
- b. $\sin(x) - \cos(x)$
- c. $\sin(x) + \cos(x) + 1$
- d. $\sin(x) - \cos(x) + 1$

3. Which of the following is the correct form of the particular integral of the given differential equation?

4. Given a particular integral of the given differential equation, which of the following is the correct form of the general solution of the given differential equation?

5. A particular integral of the given differential equation is $\sin(x) + \cos(x)$. Which of the following is the correct form of the general solution of the given differential equation?

- a. $\sin(x) + \cos(x) + \sin(x) + \cos(x) + 1$
- b. $\sin(x) + \cos(x) + \sin(x) + \cos(x)$