## **Region of Convergence I**

Consider the signal

$$g(t) = \begin{cases} e^{2t}, & t \ge 0\\ e^{4t}, & t < 0 \end{cases}$$

The region of convergence of the Laplace transform of g(t) is:

- **1.**  $2 < \operatorname{Re}[s] < 4$
- **2.**  $-4 < \operatorname{Re}[s] < 2$
- **3.**  $-2 < \operatorname{Re}[s] < 4$
- **4.**  $-4 < \operatorname{Re}[s] < -2$
- 5. There is no region of covergence
- 6. Don't know

## **Region of Convergence I**

Consider the signal

$$g(t) = \begin{cases} e^{2t}, & t \ge 0\\ e^{4t}, & t < 0 \end{cases}$$

The region of convergence of the Laplace transform of g(t) is:

The correct answer is:

- **1.**  $\heartsuit$  2 < Re[s] < 4
- **2.**  $-4 < \operatorname{Re}[s] < 2$
- **3.**  $-2 < \operatorname{Re}[s] < 4$
- **4.**  $-4 < \operatorname{Re}[s] < -2$
- 5. There is no region of covergence
- 6. Don't know

## **Region of Convergence II**

Consider the signal

$$g(t) = \begin{cases} e^{-2t}, & t \ge 0\\ e^{-4t}, & t < 0 \end{cases}$$

The region of convergence of the Laplace transform of g(t) is:

- **1.**  $2 < \operatorname{Re}[s] < 4$
- **2.**  $-4 < \operatorname{Re}[s] < 2$
- **3.**  $-2 < \operatorname{Re}[s] < 4$
- **4.**  $-4 < \operatorname{Re}[s] < -2$
- 5. There is no region of covergence
- 6. Don't know

## **Region of Convergence II**

Consider the signal

$$g(t) = \begin{cases} e^{-2t}, & t \ge 0\\ e^{-4t}, & t < 0 \end{cases}$$

The region of convergence of the Laplace transform of g(t) is:

The correct answer is:

- **1.**  $2 < \operatorname{Re}[s] < 4$
- **2.**  $-4 < \operatorname{Re}[s] < 2$
- **3.**  $-2 < \operatorname{Re}[s] < 4$
- **4.**  $-4 < \operatorname{Re}[s] < -2$
- 5.  $\heartsuit$  There is no region of covergence
- 6. Don't know