- 1. What is the Laplace transform of the function f(t) = t?
- A. F(s) = 1/s
- B. $F(s) = 1/s^2$
- C. F(s) = s
- D. $F(s) = s^2$
- 2. What is the inverse Laplace transform of the function F(s) = 1/s?
- A. f(t) = t
- B. f(t) = 1
- C. $f(t) = e^{-t}$
- D. $f(t) = \sin(t)$
- 3. What is the Laplace transform of the function $f(t) = e^{-t}$?
- A. F(s) = 1/s
- B. $F(s) = 1/s^2$
- C. F(s) = s
- D. $F(s) = s^2$
- 4. What is the inverse Laplace transform of the function F(s) = s?
- A. f(t) = t
- B. f(t) = 1
- C. $f(t) = e^{-t}$
- D. $f(t) = \sin(t)$
- 5. What is the Laplace transform of the function $f(t) = \sin(t)$?
- A. F(s) = 1/s
- B. $F(s) = 1/s^2$
- C. F(s) = s
- D. $F(s) = s^2$
- 6. What is the inverse Laplace transform of the function $F(s) = s^2$?
- A. f(t) = t
- B. f(t) = 1
- C. $f(t) = e^{-t}$

D.	f(t)	=	sin(t)
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7. What is the Laplace transform of the function $f(t) = t^2$?

A.
$$F(s) = 1/s$$

B.
$$F(s) = 1/s^2$$

$$C. F(s) = s$$

D.
$$F(s) = s^2$$

8. What is the inverse Laplace transform of the function $F(s) = 1/s^2$?

A.
$$f(t) = t$$

B.
$$f(t) = 1$$

C.
$$f(t) = e^{-t}$$

D.
$$f(t) = \sin(t)$$

9. What is the Laplace transform of the function f(t) = cos(t)?

A.
$$F(s) = 1/s$$

B.
$$F(s) = 1/s^2$$

$$C. F(s) = s$$

D.
$$F(s) = s^2$$

10. What is the inverse Laplace transform of the function $F(s) = 1/s^2$?

A.
$$f(t) = t$$

B.
$$f(t) = 1$$

C.
$$f(t) = e^{-t}$$

D.
$$f(t) = \sin(t)$$

Answer Key:

- 1. C
- 2. C
- 3. A
- 4. A
- 5. C
- 6. B
- 7. D

- 8. D
- 9. B
- 10. D