4.a

一張含有 圖表, 文字, 行, 折紙 的圖片

自動產生的描述

Vertical Scale = 0.1 V/Div

Peak to Peak = 0.6 V

Average Value = 0 V

Horizontal Scale = 1 ms/Div

Period = 0.01 s

Frequency = 100 Hz

Functional Representation: V(t) = 0.3 tri (200πt) (V)

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自動產生的描述

Vertical Scale = 0.5 V/Div

Peak to Peak = 2 V

Average Value = 1 V

Horizontal Scale = 1.0 s/Div

Period = 5 s

Frequency = 0.2 Hz

Functional Representation: V(t) = sin (0.4πt) + 1 (V)

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自動產生的描述

Vertical Scale = 1 V/Div

Peak to Peak = 2 V

Average Value = -1.5 V

Horizontal Scale = 1 ms/Div

Period = 0.002 s

Frequency = 500 Hz

Functional Representation: V(t) = sqr (1000πt) – 1.5 (V)

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自動產生的描述

Vertical Scale = 2 V/Div

Peak to Peak = 8 V

Average Value = 0 V

Horizontal Scale = 10 ms/Div

Period = 0.1 s

Frequency = 10 Hz

Functional Representation: V(t) = 4 sin (20πt) (V)

4.b

1. V1(t) = A sin (2πft) (V), where A=1 V, f =5 kHz

|  |  |
| --- | --- |
| Sine Wave | |
| Vertical Scale | 0.5 V/Div |
| Peak to Peak | 2 V |
| Horizontal Scale | 50 µs/Div |
| Period | 0.0002 s |

1. V2(t) = B sin (2πft) (V)+ C, where B=1 V, f =0.2 Hz, C =1 V

|  |  |
| --- | --- |
| Sine Wave | |
| Vertical Scale | 0.5 V/Div |
| Peak to Peak | 2 V |
| Horizontal Scale | 1 s/Div |
| Period | 5 s |

1. V3(t) = D tri (2πft) (V)+ E, where D=4 V, f =2 kHz, E =2 V

|  |  |
| --- | --- |
| Sine Wave | |
| Vertical Scale | 2 V/Div |
| Peak to Peak | 8 V |
| Horizontal Scale | 100 µs/Div |
| Period | 0.0005 s |

1. V4(t) = F tri (2πft) (V)+ G, where F=1 V, f =5 kHz, G =3 V

|  |  |
| --- | --- |
| Sine Wave | |
| Vertical Scale | 0.5 V/Div |
| Peak to Peak | 2 V |
| Horizontal Scale | 50 µs/Div |
| Period | 0.0002 s |

4.c