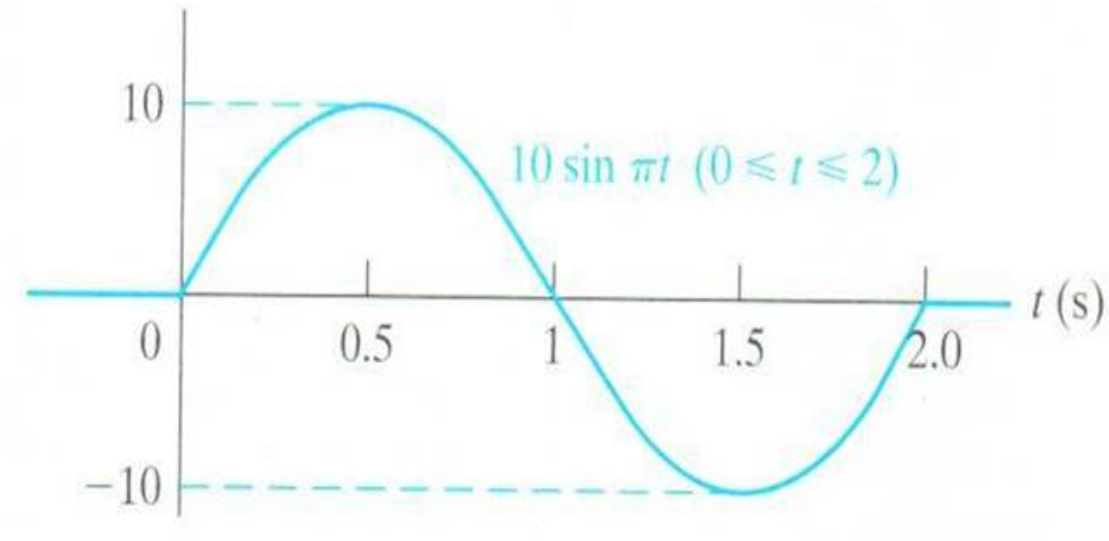
Started on	Thursday, 2 March 2017, 8:04 PM
State	Finished
Completed on	Friday, 3 March 2017, 3:00 PM
Time taken	18 hours 55 mins
Grade	**100.00** out of 100.00

Question 1

Correct

Mark 20.00 out of 20.00



P12.01b_7ed

Use step functions to write the expression for this waveform.

f(t) = 10 sin (pi t) [u(t - 0 ✓) – u(t - 2 ✓)]

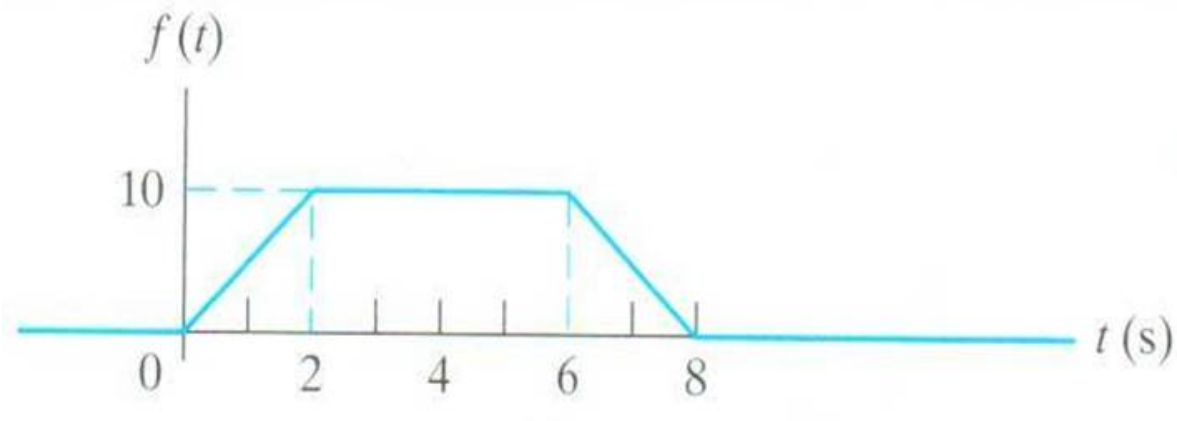
Correct

Marks for this submission: 20.00/20.00.

Question 2

Correct

Mark 20.00 out of 20.00



P12.01a_7ed

Use step functions to write the expression for this waveform.

a) Write the expression for the interval 0 <= t <= 2 sec.

f(t) = (5 t)[u(t – 0 ✓ – u(t - 2 ✓)]

b) Write the expression for the interval 2 <= t <= 6 sec.

f(t) = (10)[u(t – 2 ✓) – u(t - 6 ✓)]

c) Write the expression for the interval 6 <= t <= 8 sec.

f(t) = (-5t + 40)[u(t – 6 ✓) – u(t - 8 ✓)]

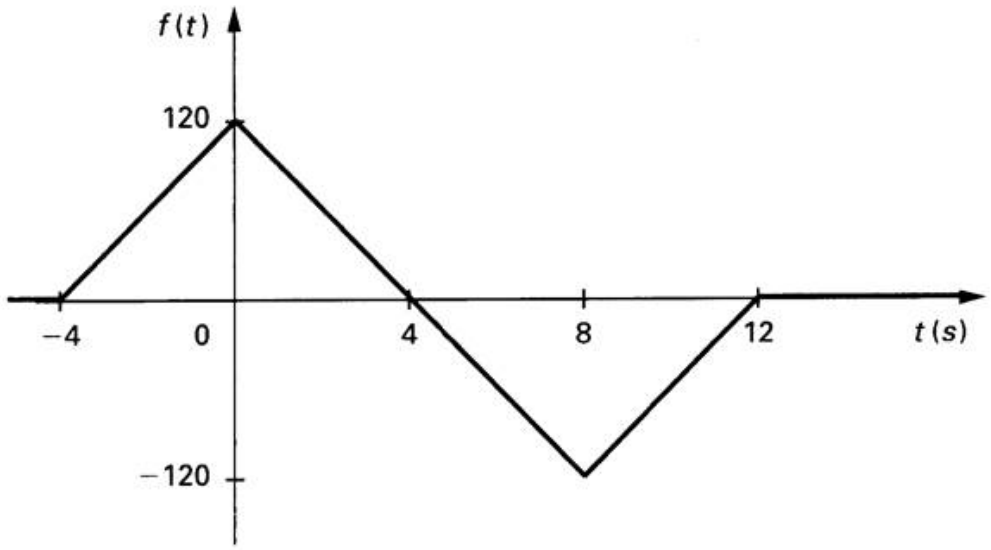
Correct

Marks for this submission: 20.00/20.00.

Question 3

Correct

Mark 20.00 out of 20.00



P12.01b_6ed

Use step functions to write the expression for this waveform.

a) Write the expression for the interval -4 <= t <= 0 sec.

f(t) = (30 t + 120)[u(t + 4 ✓) – u(t - 0 ✓)]

b) Write the expression for the interval 0 <= t <= 8 sec.

f(t) = (-30 t + 120)[u(t – 0 ✓) – u(t - 8 ✓)]

c) Write the expression for the interval 8 <= t <= 12 sec.

f(t) = (30 t - 360)[u(t – 8 ✓) – u(t - 12 ✓)]

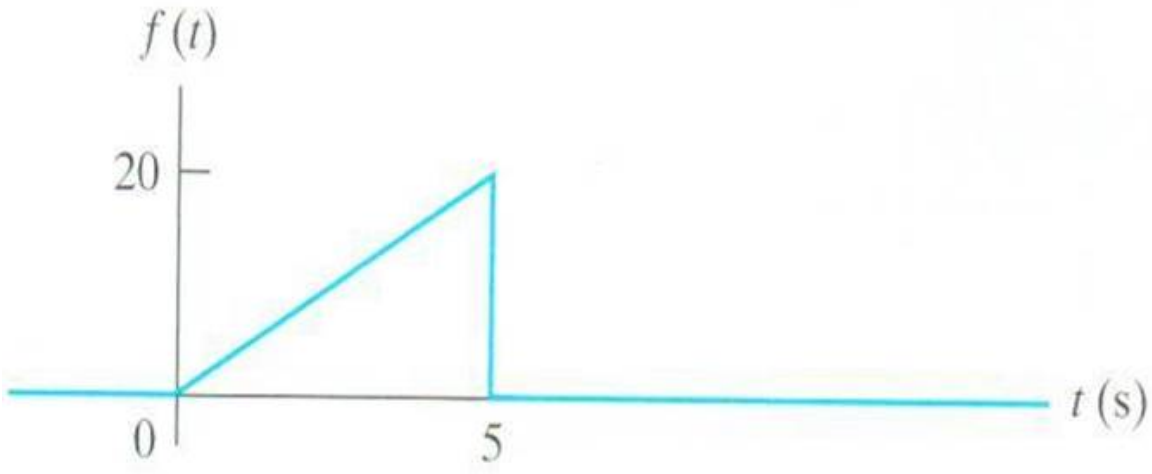
Correct

Marks for this submission: 20.00/20.00.

Question 4

Correct

Mark 20.00 out of 20.00



P12.01c_7ed

Use step functions to write the expression for this waveform.

f(t) = 4t [u(t - 0 ✓) – u(t - 5 ✓)]

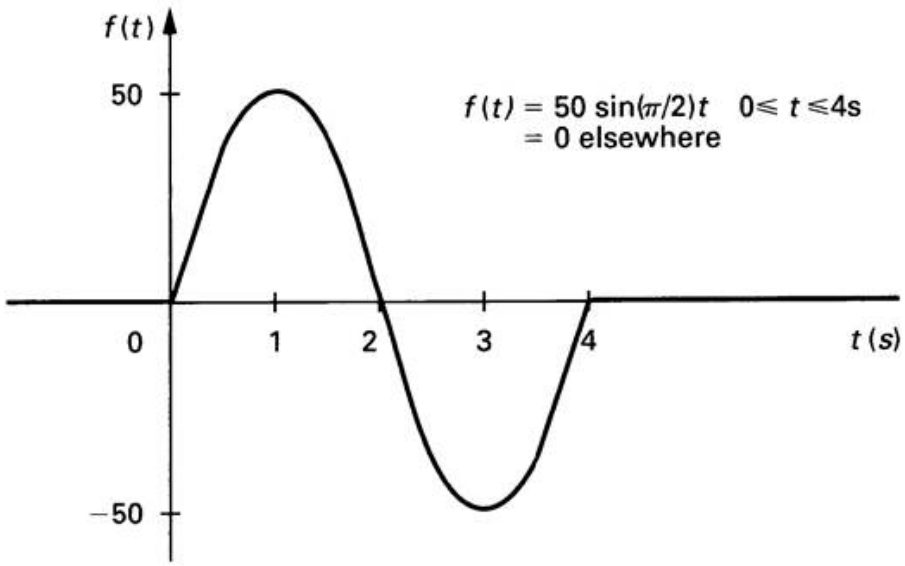
Correct

Marks for this submission: 20.00/20.00.

Question 5

Correct

Mark 20.00 out of 20.00



P12.01a_6ed

Use step functions to write the expression for this waveform.

f(t) = 50 sin (pi/2 t) [u(t - 0 ✓) – u(t – 4 ✓)]

Correct

Marks for this submission: 20.00/20.00.