Started on	Thursday, 21 December 2023, 11:30 AM
State	Finished
Completed on	Thursday, 21 December 2023, 11:59 AM
Time taken	29 mins 5 secs
Grade	12.00 out of 12.00 (100 %)

Question $\mathbf{1}$

Correct

Mark 2.00 out of 2.00



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Question **2** Correct

Mark 2.00 out of 2.00

Consider the IVP y'=2t+y, y(0)=0. Using Picard'd method

Select one:

$$\phi_2(t) = \frac{t^2}{2} + \frac{t^3}{3} \\ \phi_2(t) = \frac{t^2}{2} + \frac{t^3}{3!} \\ \phi_2(t) = t^2 + \frac{t^3}{3!} \\ \phi_2(t) = t^2 + \frac{t^3}{3!} \\ \phi_2(t) = t^2 + \frac{t^3}{3!}$$

The correct answer is: $\phi_2(t)=t^2+rac{t^3}{3}$

Question **3**

Correct Mark 2.00 out of 2.00



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Question 4

Correct Mark 2.00 out of 2.00

The general solution of the differential equation $yy^{\prime\prime}=-225(y^\prime)^2$ is

Select one:

• $y(t)^{226} = 226(c_1t+c_2)$ 🗸

The correct answer is: $y(t)^{226}=226(c_1t+c_2)$

Question **5**

Correct Mark 2.00 out of 2.00

The general solution of the differential equation $3y^{\prime\prime}=5y^{\prime}$ is

Select one:

$$egin{aligned} & y(t) = c_1 e^{(rac{6}{3}t)} + c_2 \ & y(t) = c_1 e^{(rac{2}{3}t)} + c_2 \ & y(t) = c_1 e^{(rac{10}{3}t)} + c_2 \ & y(t) = c_1 e^{(rac{10}{3}t)} + c_2 \ & y(t) = c_1 e^{(rac{5}{3}t)} + c_2 \$$

The correct answer is: $y(t)=c_1e^{(rac{5}{3}t)}+c_2$

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Question **6** Correct

Mark 2.00 out of 2.00

The initial value problem $y' = t - y^3, y(7) = 6$ is equivalent to the following initial value problem at the origin.

Select one:

The correct answer is: $z'= au+7-(z+6)^3, z(0)=0$

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