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16. Exam

Exam due Oct 15, 2021 21:30 IST Completed 16 (a)

1 point possible (graded, results hidden)

Suppose that c is the curve parametrized by ${2t\choose t^2}$ as t goes from 0 to 2. Find a vector which is tangent to c at the point (2,1).

(Enter vector components separated by commas and surrounded by square brackets: e.g. [1,0].)

Find a vector which is normal to c at the point (2, 1).

(Enter vector components separated by commas and surrounded by square brackets: e.g. [1,0] .)

? INPUT HELP

Submit

Answer submitted.

16 (b)

1 point possible (graded, results hidden)

The following picture shows a parametrized curve in the plane.

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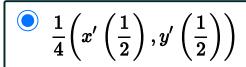
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$$(x(1/4), y(1/4)) \qquad (x(1/2), y(1/2)) \qquad \uparrow \qquad (x(3/4), y(3/4)) \qquad (x(1), y(1))$$

The points labelled on the curve are (x(0),y(0)),(x(1/4),y(1/4)), $(x\left(1/2
ight),y\left(1/2
ight))$, $(x\left(3/4
ight),y\left(3/4
ight))$, and $(x\left(1
ight),y\left(1
ight))$. The vector $ec{v}$ goes from (x(1/2), y(1/2)) to (x(3/4), y(3/4)).

Which of the following four choices is the best approximation of the vector \vec{v} ?



$$igcircle{}{}$$
 $rac{1}{2}igg(x'\left(rac{1}{2}
ight),y'\left(rac{1}{2}
ight)igg)$

$$egin{array}{c} \bigcirc & rac{3}{4} \left(x' \left(rac{1}{2}
ight), y' \left(rac{1}{2}
ight)
ight) \end{array}$$

$$igcircle \left(x'\left(rac{1}{2}
ight),y'\left(rac{1}{2}
ight)
ight)$$

Submit

Answer submitted.

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