(0) (5)
$$F_{-1}(2t, t^2) N$$
 $N = F_{-1}(2t, t^2) N$
 $N = F_{-1}(2t,$

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$$\frac{dw}{dt} = \vec{F} \frac{d(\vec{s})}{dt} + \vec{F} \frac{d(\vec{F})}{dt}$$

$$\frac{dw}{dt} = \langle 2t, t^2 \rangle \cdot \langle 0, | \sqrt{2} \rangle + \langle 3, t \sqrt{2} \rangle \cdot \langle 2, 7t \rangle$$

$$= \langle 0 + t^3 / 2 \rangle + \langle 6 + t^2 \rangle$$

$$= 3t^3 + 6$$

$$\frac{dw}{dt} = 7.5 \quad m = 7.5 \quad j = 7.5 \quad N$$

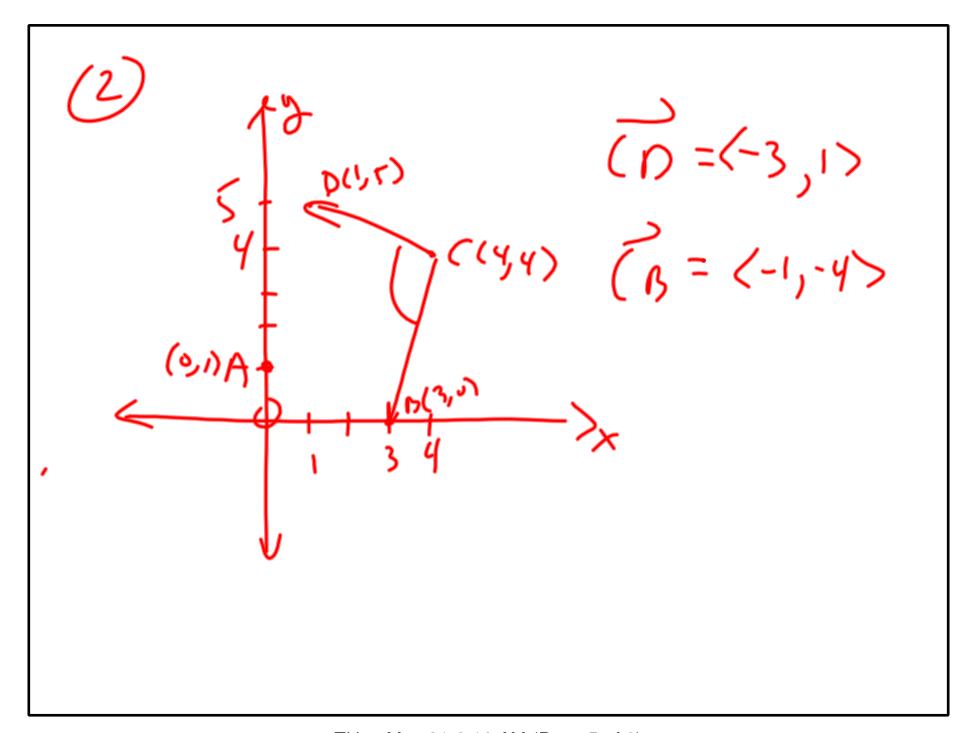
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(10) (10) (10)
$$2 = \langle 1, -2, 5 \rangle$$
 $(n+\sqrt{2} = \langle -2, -1, 4 \rangle)$
 $\sqrt{2} = \langle -3, 1, -1 \rangle$ $(2(n+\sqrt{2})) = \langle -4, -2, 8 \rangle$
 $(2u+2v) = \langle -4, -2, 8 \rangle$

DISTRIBUTION OF SCACAR MULTIPLICATION.

DUER VECTUR ADDITION.



$$\begin{array}{c|c}
\overline{CD} \times \overline{CQ} = \langle -3, 1 \rangle \times \langle -1, -4 \rangle \\
= \begin{vmatrix} \hat{C} & \hat{A} & \hat{A} \\
-3 & 1 & 0 \\
-1 & -4 & 0 \end{vmatrix}$$

$$= (0 - 0)\hat{C} - (0 - 0)\hat{C} + (12 + 1)\hat{A} = 13\hat{A}$$

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