

12-19.

A particle moves along a straight path with an acceleration of $a = (kr^2 + 4)$ ft/s², where t is in seconds. Determine the constant k , knowing that $v = 12$ ft/s when $t = 1$ s, and that $v = -2$ ft/s when $t = 2$ s.

SOLUTION

$$a = \frac{dv}{dt}$$

$$(kr^2 + 4)dt = dv$$

$$\int_1^2 (kr^2 + 4)dt = \int_{12}^{-2} dv$$

$$\frac{1}{3}kr^3 + 4t \Big|_1^2 = v \Big|_{12}^{-2}$$

$$k = -4.80 \text{ ft/s}^3$$

Ans.

Ans:
 $k = -4.80 \text{ ft/s}^3$

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Lingsheng Yao



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