Answer on Question #53223, Physics / Mechanics | Kinematics | Dynamics

Given:

$$v = u + \sqrt{2as}$$

A particle moves along a straight line!

u = const

Solution:

$$s = At + B$$

$$\Rightarrow v = A$$

$$a = \frac{A - u}{At + B} \sim \frac{1}{t} \to 0$$

Answer: b) Decrease with time

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