Solutions



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 \therefore statement in option (d) is wrong

\$17. Ans. (d) Hint: $= \vec{v}_{av} = \frac{\Delta \vec{r}}{\Delta t} = \frac{(13-2)i+(14-3)j}{5-0} = \frac{11}{5}(i+j)$ **\$18.** Ans. (a) Hint: As Range $= \frac{u^2 \sin^2 \theta}{g}$ so, $g \propto u^2$ Therefore $g_{planet} = \left(\frac{3}{5}\right)^2 (9.8 \text{ ms}^{-2})$ $= 3.5 \text{ ms}^{-2}$ **\$19.** Ans. (d) Hint: In a projectile vertical component of velocity keeps on changing with time. While horizontal velocity component remains constant \vec{v}_{j} \vec{v}_{j} \vec

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