| 12 | 9 | What is the derivative of $\cos ^{-1}(3 x)$ ? <br> (A) $\frac{1}{3 \sqrt{1-9 x^{2}}}$ <br> (B) $\frac{-1}{3 \sqrt{1-9 x^{2}}}$ | (C) $\frac{3}{\sqrt{1-9 x^{2}}}$ | (D) $\frac{-3}{\sqrt{1-9 x^{2}}}$ | 1 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| $\text { D } \begin{aligned} \frac{d}{d x}\left[\cos ^{-1}(3 x)\right] & =\frac{-1}{\sqrt{1-(3 x)^{2}}} \cdot 3 \\ & =\frac{-3}{\sqrt{1-9 x^{2}}} \end{aligned}$ |  |  |  |  | State Mean $0.72 / 1$ |
|  |  |  |  |  |  |

* These solutions have been provided by projectmaths and are not supplied or endorsed by the Board of Studies

