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20146 What is the derivative of $3 \sin ^{-1} \frac{x}{2}$ ?
(A) $\frac{6}{\sqrt{4-x^{2}}}$
(B) $\frac{3}{\sqrt{4-x^{2}}}$
(C) $\frac{3}{2 \sqrt{4-x^{2}}}$
(D) $\frac{3}{4 \sqrt{4-x^{2}}}$

B

$$
\begin{aligned}
\frac{d}{d x}\left(3 \sin ^{-1} \frac{x}{2}\right) & =3 \times \frac{1}{\sqrt{4-x^{2}}} \\
& =\frac{3}{\sqrt{4-x^{2}}}
\end{aligned}
$$

[^0]
[^0]:    * These solutions have been provided by projectmaths and are not supplied or endorsed by BOSTES.

