Want more revision exercises? Get MathsFit HSC Extension 1 for \$2.95/topic - New from projectmaths

2014

What is the derivative of  $3 \sin^{-1} \frac{x}{2}$ ?

(A) 
$$\frac{6}{\sqrt{4-x^2}}$$

(A) 
$$\frac{6}{\sqrt{4-x^2}}$$
 (B)  $\frac{3}{\sqrt{4-x^2}}$  (C)  $\frac{3}{2\sqrt{4-x^2}}$ 

(C) 
$$\frac{3}{2\sqrt{4-x^2}}$$

(D) 
$$\frac{3}{4\sqrt{4-x^2}}$$

B

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

State Mean: 0.75

<sup>\*</sup> These solutions have been provided by projectmaths and are not supplied or endorsed by BOSTES.