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

20156 What is the domain of the function $f(x)=\sin ^{-1}(2 x)$ ?
(A) $-\pi \leq x \leq \pi$
(B) $-2 \leq x \leq 2$
(C) $-\frac{\pi}{4} \leq x \leq \frac{\pi}{4}$
(D) $-\frac{1}{2} \leq x \leq \frac{1}{2}$

D
Use domain of $g(x)=\sin ^{-1} x$ is $-1 \leq x \leq 1$ :
$\therefore$ domain of $f(x)=\sin ^{-1}(2 x)$ is $-1 \leq 2 x \leq 1$

$$
-\frac{1}{2} \leq x \leq \frac{1}{2}
$$

* These solutions have been provided by projectmaths and are not supplied or endorsed by BOSTES.

