## Conditions

find that $\sin (b+c) \sin (b-c)=$ ?

## Solution

Consider:
$\sin (b+c) \sin (b-c)$

As we know:
$\cos \alpha-\cos \beta=-2 \sin \frac{\alpha+\beta}{2} \sin \frac{\alpha-\beta}{2}$
That's why

$$
\sin (b+c) \sin (b-c)=-\frac{\cos 2 b-\cos 2 c}{2}
$$

