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

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