4. Express $\cos 75° + \cot 75°$ in terms of trigonometric ratios of angles between $0°$ and $45°$.

5. Evaluate :

    (i) $\sin^2 20° + \sin^2 70°$ (ii) $\dfrac{\cos^2 20° + \cos^2 70°}{\sin^2 59° + \sin^2 31°}$

6. Evaluate :

    $\left(\dfrac{\sin 27°}{\cos 63°}\right)^2 + \left(\dfrac{\cos 63°}{\sin 27°}\right)^2$

7. Evaluate :
    $\operatorname{cosec}^2 67° - \tan^2 23°$

Prove that :

8. $\dfrac{\cos(90° - \theta)}{\sin \theta} + \dfrac{\sin \theta}{\cos(90° - \theta)} = 2,\ \theta \neq 0°$

9. $\sec^2 \theta - \cot^2(90° - \theta) = \cos^2(90° - \theta) + \cos^2 \theta$

10. $\dfrac{\cos(90° - \theta)\cos \theta}{\tan \theta} + \cos^2(90° - \theta) = 1$