Q1.

$$\frac{\sec\theta+\tan\theta-1}{\tan\theta-\sec\theta+1}=\frac{\cos\theta}{(1-\sin\theta)}.$$

Q2.

$$(\sin\theta+\operatorname{cosec}\theta)^2+(\cos\theta+\sec\theta)^2=(7+\tan^2\theta+\cot^2\theta).$$

Q3.

$$\frac{1}{(\sec\theta-\tan\theta)}-\frac{1}{\cos\theta}=\frac{1}{\cos\theta}-\frac{1}{(\sec\theta+\tan\theta)}.$$

Q4.

$$\frac{\sec\theta+\tan\theta-1}{\tan\theta-\sec\theta+1}=\frac{\cos\theta}{(1-\sin\theta)}.$$

Q5.

$$\sqrt{\frac{\sec\theta-1}{\sec\theta+1}}+\sqrt{\frac{\sec\theta+1}{\sec\theta-1}}=2\operatorname{cosec}\theta.$$

Q6.

$$\frac{\cos^3\theta+\sin^3\theta}{\cos\theta+\sin\theta}+\frac{\cos^3\theta-\sin^3\theta}{\cos\theta-\sin\theta}=2$$

Q7. $(1+\tan 2\theta)(1-\sin\theta)(1+\sin\theta)=1$

Q8.

$$\frac{cos\theta}{1-tan\theta} + \frac{\sin\theta}{(1-\cot\theta)} = (\cos\theta + \sin\theta)$$

Q9.

$$\frac{\tan A}{(1-\cot A)} + \frac{\cot A}{(1-\tan A)} = (1 + \tan A + \cot A)$$

Q10.

$$\frac{\cot A - \cos A}{\cot A + \cos A} = \frac{\text{cosec } A - 1}{\text{cosec } A + 1}$$