(iii)
$$\cos \theta = PQ/PR = 2(\sqrt{x+1}) / (x+2)$$

Question 34:

If x = cosecA+cosA and y=cosecA-cosA, then prove that

$$\left(\frac{2}{x+y}\right)^2 + \left(\frac{x-y}{2}\right)^2 - 1 = 0.$$

Solution:

$$x = cosecA + cosA$$
 and $y = cosecA + cosA$

$$x + y = cosecA + cosA + cosecA - cosA = 2cosecA$$

$$x - y = cosecA + cosA - cosecA + cosA = 2cos A$$

LHS:

$$\left(\frac{2}{x+y}\right)^2 + \left(\frac{x-y}{2}\right)^2 - 1$$

$$= \left(\frac{2}{2 \operatorname{cosecA}}\right)^2 + \left(\frac{2 \operatorname{cosA}}{2}\right)^2 - 1$$

$$= \sin^2 + \cos^2 A - 1$$

(Using trig property:
$$sin^2 + cos^2 A = 1$$
)

$$= 1 - 1$$

$$= 0$$

Question 35:

If
$$x = \cot A + \cos A$$
 and $y = \cot A - \cos A$, prove that

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