# Activity Worksheet

Challenging brain

**Sub : Mathematics** **Grade: IX** **Date: .....**

**Name: .....** **ID No.....**

***(i.)*** If a = 5+2 $2\sqrt{6}$ and b = $\frac{1}{a}$, what will be the value of $a^2 + b^2$?

***(ii.)*** Find the value of a and b if $\frac{7+\sqrt{5}}{7-\sqrt{5}} - \frac{7-\sqrt{5}}{7+\sqrt{5}} = a + \frac{7}{11}\sqrt{5}b$

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