

Algebraic Expressions and Identities: Worksheet -8

(i) If $x + y = 7$, $xy = 12$ find the value of $x^2 + y^2$

(ii) If $x - y = 3$, $xy = 10$ find the value of $x^2 + y^2$

(iii) If $2x + 3y = 13$, $xy = 6$ find the value of $4x^2 + 9y^2$

(vi) If $x - \frac{1}{x} = 5$, find the value of $x^2 + \frac{1}{x^2}$ and $x^4 + \frac{1}{x^4}$

