Algebraic Expressions and Identities: Worksheet -6

1. Write the following products using special products:

(i) $(2x+5)^2$ =_____

(ii) $\left(a+\dfrac{1}{a}\right)^2$ =_____

(iii) $(3x-4y)^2$ =_____

(iv) $\left(3x-\dfrac{1}{2x}\right)^2$ =_____

(v) $(3t+7)(3t-7)$ =_____

(vi) $(pq+5)(pq-5)$ =_____

(vii) $(a-1)(a+1)(a^2+1)(a^4+1)$ =_____

(viii) $\left(n-\dfrac{1}{n}\right)\left(n+\dfrac{1}{n}\right)\left(n^2+\dfrac{1}{n^2}\right)$ =_____