

19.6.2020 HW

(i) Evaluate  $\sqrt[4]{\sqrt[3]{x^2}}$

(ii) Simplify:  $\left(\frac{81}{16}\right)^{\frac{3}{4}} \times \left(\frac{25}{9}\right)^{\frac{3}{2}}$

(iii) If  $a = 2$ ,  $b = 3$ , find  $(a^b + b^a)^{-1}$

(iv) Simplify:  $\frac{7^{\frac{1}{5}}}{7^{\frac{1}{3}}}$

(v) Simplify:  $7^3 \times 9^3$