

$$7i) \sqrt[3]{700 \times 2 \times 49 \times 5}$$

$$= 2 \times 2 \times 5 \times 5 \times 7 \times 2 \times 7 \times 7 \times 5$$

$$= (2 \times 2 \times 2) \times (5 \times 5 \times 5) \times (7 \times 7 \times 7)$$

$$= 2 \times 5 \times 7 = 70$$

$$ii) \sqrt[3]{-216 \times 1728}$$

$$= -(6 \times 6 \times 6) \times (12 \times 12 \times 12)$$

$$= -(12 \times 6) = -72$$

$$iii) \sqrt[3]{(-64) \times (-125)}$$

$$= (-4) \times (-4) \times (-4) \times (-5) \times (5) \times (5) = (-5) \times (-4) = 20$$

$$iv) \sqrt[3]{\frac{-27}{343}} = \sqrt[3]{\frac{-3 \times 3 \times 3}{7 \times 7 \times 7}} = -\frac{3}{7}$$

$$v) \sqrt[3]{\frac{729}{-1331}} = \sqrt[3]{\frac{(9 \times 9 \times 9)}{-11 \times 11 \times 11}} = -\frac{9}{11}$$

$$vi) \sqrt[3]{\frac{250047}{1000}} = \sqrt[3]{\frac{63 \times 63 \times 63}{10 \times 10 \times 10}} = \frac{63}{10} = 6.3$$

$$vii) \sqrt[3]{-175616} = \sqrt[3]{-(56 \times 56 \times 56)} = -56$$

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