



இயல் 7.3 - இயற்கணிதம்

பயிற்சி எண் :: 7.3.3.1.H

இயற்கணிதம் (Algebra) - அடுக்கு விதிகள் - பயிற்சி

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1. அடுக்கு விதிகளைப் பயன்படுத்தி பின்வருவனவற்றைச் சுருக்குக.

i) $5^4 \times 5^5 \times 5^2$

$$5^4 \times 5^5 \times 5^2 = 5^{4+5+2} \\ = 5^{11}$$

$$[\because a^m \times a^n = a^{m+n}]$$

$$5^4 \times 5^5 \times 5^2 = 5^{11}$$

ii) $8^8 \div 8^2$

$$8^8 \div 8^2 = 8^{8-2} \\ = 8^6$$

$$[\because a^m \div a^n = a^{m-n}]$$

$$8^8 \div 8^2 = 8^6$$

iii) $(12^2)^1 \times (12^0)^2$

$$(12^2)^1 \times (12^0)^2 = 12^{2 \times 1} \times 12^{0 \times 2} \\ = 12^2 \times 12^0 = 12^2 \times 1 \\ = 12^2$$

$$[\because (a^m)^n = a^{m \times n}]$$

$$[\because a^0 = 1]$$

$$(12^2)^1 \times (12^0)^2 = 12^2$$

iv) $5^8 \times 3^8$

$$5^8 \times 3^8 = (5 \times 3)^8 \\ = 15^8$$

$$[\because a^m \times b^m = (a \times b)^m]$$

$$5^8 \times 3^8 = 15^8$$

v) $32^5 \div 4^5$

$$32^5 \div 4^5 = (32 \div 4)^5 \\ = 8^5$$

$$[\because a^m \div b^m = (a \div b)^m]$$

$$\begin{array}{r} 8 \\ 4 \overline{)32} \\ \underline{32} \\ 0 \end{array}$$

$$32^5 \div 4^5 = 8^5$$

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Sum & solution prepared on Friday 29th July, 2022 :: 14:57 Hrs.

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