Name _____

Power of Products

Tick the correct option from the following.

1) Which of the following equals $8^{14} \cdot 9^{14}$

(i) $(-72)^{14}$ ☐ (ii) 72^{14} ☑ (iii) 89^{14} ☐

2) Which of the following equals $(-3)^4 \cdot 9^4$

(i) $(-27)^4$ ☑ (ii) 27^{14} ☐ (iii) $(-27)^{16}$ ☐

3) Which of the following equals $(-2)^5 \cdot (-9)^5$

(i) $(-18)^5$ ☐ (ii) 18^5 ☑ (iii) $(18)^{-5}$ ☐

4) The value of x, if $x^2 \cdot (-3y)^2 = (6yz)^2$

(i) $(2z)$ ☐ (ii) (yz) ☐ (iii) $(-2z)$ ☑

5 The value of x, if $(x)^5 \cdot (-6b)^5 = (-24ab)^5$

(i) $(4a)$ ☑ (ii) $(-4b)$ ☐ (iii) $(-4ab)$ ☐

6) The value of x, if $(-6y)^{-2} \cdot x^{-2} = (36yz)^{-2}$

(i) (-6) ☐ (ii) $(-z)$ ☐ (iii) $(-6z)$ ☑

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