

Raising a Power to a Power

✓ * Keep the same base and multiply the exponents

$$(X^2)^3 = X^{2 \cdot 3} = X^6$$

$$(C^4)^2 = C^{4 \cdot 2} = C^8$$

$$\textcircled{1} (4^2)^3 = 4^{2 \cdot 3} = 4^6$$

$$\textcircled{2} (Y^4)^5 = Y^{4 \cdot 5} = Y^{20}$$

$$\textcircled{3} (b^5)^5 = b^{5 \cdot 5} = b^{25}$$

$$\textcircled{4} (Y^{10})^8 = Y^{10 \cdot 8} = Y^{80}$$

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