

Laws of Indices

Simplify:

- (a) $4^5 \times 4^2$ (b) $4^5 \times 4^3$
 (c) $4^3 \times 4^5$ (d) 4×4^5
 (e) $4^5 \times 4^{-2}$ (f) $4^0 \times 4^3$
 (g) $4^{2.5} \times 4^{0.5}$ (h) $4^5 \times 5^2$
 (i) $5^{-3} \times 5^2$ (j) $5^{-5} \times 5^{-3}$

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 (g) $4^5 \div 5^4$ (h) $5^{2.5} \div 5^{0.5}$
 (i) $\frac{5^7}{5^2}$ (j) $\frac{(-5)^7}{(-5)^2}$

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 (e) $(3^4)^1$ (f) $3^3 \times (3^4)^{0.5}$

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Find x :

- (a) $5^x \times 5^4 = 5^7$
 (b) $\frac{3^x \times 3^{-2}}{3^4} = 3^{10}$
 (c) $10^2 \times 10^x = 1000000$

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