

Negative and Fractional Indices

1) Write each of the following as a single power:

(a) $7^5 \times 7^3$ (b) $\frac{9^7}{9^5}$ (c) $5^{-3} \times 5^6$ (d) $\frac{2^4}{2^{-3}}$ (e) $\frac{3^7 \times 3^{-4}}{3^2}$

2) Simplify each of the following:

(a) 5^{-2} (b) 7^{-1} (c) 2^{-5} (d) 4^{-3} (e) 9^0

3) Simplify each of the following:

(a) 1^{-1} (b) $16^{\frac{1}{2}}$ (c) 9^{-2} (d) $64^{-\frac{1}{3}}$ (e) $8^{\frac{2}{3}}$ (f) $25^{-\frac{3}{2}}$
(g) $\left(6^{\frac{1}{2}}\right)^4$ (h) $(9^6)^{-\frac{1}{3}}$ (i) $(2a^2)^3$ (j) $(9x^8)^{\frac{1}{2}}$ (k) $8x^0$ (l) $(8x)^0$

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