PATH TO SUCCESS

ON INDICES AND STANDARD FORM (WITH QUESTIONS AND ANSWERS) BY JOHN EKPENYONG

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Example 2

Simplify (a) 10-3 (b) $12x^7 \div 4a^3$ (c) $(1/4)^{-2}$ Solution

(a) $10^{-3} = 1/10^3 = 1/1000$

(3 x a x a)

<u>4 x (3xaxa)a x a x a x a x a</u>

(3xaxa)

 $=4 \times a \times a \times a \times a \times a = 4a^5$

(c)
$$(1/4)^{-2} = 1/(1/4)^2 = 1/(1/16) = 16$$

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- > 3. Simplify 0.000 006 3
- [a] 6.3×10^{-6}
- [b] 6.3×10^6
- [c] 6.3 x 10⁻⁵
- [d] 6.3 x10⁻⁷
- ▶ 4. Solve (12x⁵ x 3x³)⁰
- [a] 1
- [b] 11
- [c] 9x³
- $[d] 4x^4$

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- ▶ 13. Express 5³ in standard form.
- [a] 15
- [b] 5⁻³
- [c] 15
- [d] 125
- ▶ 14. Simplify (2⁴)² in indices form.
- [a] 2^7
- [b] 2²
- [c] 2⁸
- [d] 2⁹

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