

Indices Quiz

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Simplify the following:

1) $x^5 \times x^3 =$

2) $4x^3 \times 6x^2 =$

3) $7x^3 \times 8y^2 =$

4) $9a^2b^3 \times 10a^3b^4 =$

5) $\frac{x^5}{x^3} =$

6) $\frac{5x^2}{10x} =$

7) $\frac{4x^2}{2x^5} =$

8) $\frac{12x^3y^5}{3x^2y^6} =$

9) $x^0 =$

10) $7x^0 =$

11) $(8x)^0 =$

12) $x^5y^0z^4 =$

13) $\frac{2x^5 \times 4x^3}{5x^2 \times 3y} =$

14) $(x^2y^3)^4 =$

15) $\left(\frac{x^2}{y^3}\right)^4 =$

16) $\left(\frac{3x^2}{5y^4}\right)^3 =$

17) $\frac{4}{x^{-2}} =$

18) $\left(\frac{x}{y}\right)^{-1} =$

19) $\left(\frac{x^2}{y^3}\right)^{-3} =$

20) Write in index form: $\sqrt{x} =$

21) Write in index form: $\sqrt[3]{x^4} =$

22) Simplify the following into one term of base 5: $5^2 \times 25^2 =$