Laws of Indices

Simplify the following:

1) $(t^9)^6$ =

2) $(a^2)^5$ =

3) $(b^5)^{16}$ =

4) $(8^4)^5$ =

5) $(p^4 q^3)^9$ =

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

7) $\left(\frac{2m^3}{3n^2}\right)^3$ = _____

8) $(6^5)^{12}$ =

9) $(a^6b^4c^5)^8$ =

Determine the value of the following:

1) 10^0 =

2) 15^0 =

3) 127^0 =

Review

1) $9r^5 \times 5r^3$ =

2) $24q^7 \div 3q^3$ =

2) $3p \times 2p^3 \times 5$ =

4) $\frac{18a^6}{3b^2}$ =

5) $\frac{9}{10} a^3 \times \frac{2}{3} a$

= _____ _____

6) $6w \times \frac{1}{2} w^3$

= _____ _____