1. Show that $\dfrac{Sin^2x}{Cos\ x.Tanx} = Sinx$

2. Find the resultant vector of $3\boldsymbol{u}$ -$2\boldsymbol{v}$ when $\boldsymbol{u} = \begin{pmatrix} 1 \\ -3 \\ 2 \end{pmatrix}$ and $\boldsymbol{v} = \begin{pmatrix} -2 \\ 0 \\ 3 \end{pmatrix}$.

3. Find the equation of the straight line with gradient 4 and passing through (-4,1).

4. Evaluate $64^{5/6}$.

5. Expand and simplify $(x - 4)^3$.

6. Solve $\dfrac{3x+5}{4} = \dfrac{x}{3}$.

7. Two cuboids below are mathematically similar. Work out the volume of the larger cuboid.

3cm
4cm
1cm
9cm
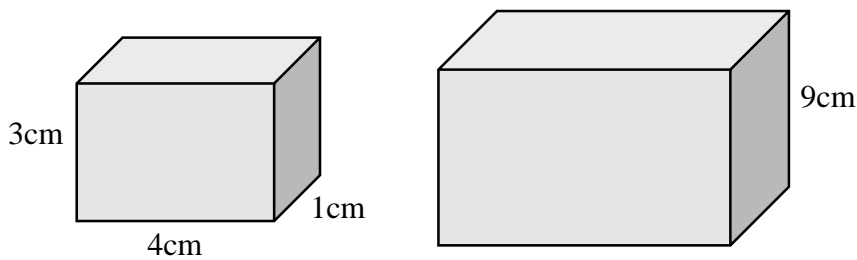
8. Write $x^2 + 6x - 11$ in the form $(x + a)^2 + b$.

9. Simplify $\sqrt{32} - \sqrt{18} + (\sqrt{2})^3$

10. Write down the equation of the graph shown below.