**1D Negative & Fractional Indices**

1. Simplify
2. $\frac{x^{3}}{x^{-3}}$
3. $x^{\frac{1}{2}}×x^{\frac{3}{2}}$
4. $\left(x^{3}\right)^{\frac{2}{3}}$
5. $\sqrt[3]{125x^{6}}$
6. $\frac{2x^{2}-x}{x^{5}}$
7. Evaluate (work out the value of)
8. $9^{\frac{1}{2}}$
9. $64^{\frac{1}{3}}$
10. $49^{\frac{3}{2}}$
11. $25^{-\frac{3}{2}}$
12. Given that $y=\frac{1}{16}x^{2}$, express $y^{\frac{1}{2}}$ in the form $kx^{n}$ where $k$ and $n$ are constants
13. Given that $y=\frac{1}{16}x^{2}$, express $4y^{-1}$ in the form $kx^{n}$ where $k$ and $n$ are constants