

Question 1

1 Calculate the following without the use of a calculator. Show all steps!

1.1 $18 - 10 + 4 - 6$

1.2 $-24 - (-18)$

1.3 $8 \times (-3) \div (-6)$

1.4 $-4^2 + (-4)^3$

1.5 $\sqrt{169} - \sqrt[3]{-0,064}$

1.6 $\sqrt{1\frac{9}{16} \times 1\frac{2}{3} \div 9,3}$

Question 2

2.1 Simplify the following and give your answers as positive exponents.

2.1.1 $-4(x^3)^0$

2.1.2 $(-4x^3)^0$

2.1.3 $3^{-1}a^2b^{-5}$

2.1.4 $(-2y^2)(-2y)^{-2}$

2.1.5 $\frac{x^4y^3}{x^5y^3}$

2.2 Calculate the following without the use of a calculator. Show all your work.

$$4^{-2} \times 6^2 \times 3^{-2}$$