

Sec. 4.5 – Negative Exponents and Reciprocals

1. Evaluate each power.

a) 7^{-2}

b) $\left(\frac{10}{3}\right)^{-3}$

c) $(-1.5)^{-3}$

2. Evaluate each power without using a calculator.

a) $16^{-\frac{5}{4}}$

b) $\left(\frac{25}{36}\right)^{-\frac{1}{2}}$

3. Use the formula $v = 0.155s^{\frac{5}{3}}f^{-\frac{7}{6}}$ to estimate the speed of a dinosaur when $s = 1.5$ and $f = 0.3$.