The reciprocal of $\frac{a}{b}$ is $\frac{b}{a}$.

$$
\Rightarrow \quad X^{-n}=\frac{1}{X^{n}}
$$

$$
\text { ex: } 3^{-2}=\frac{1}{3^{2}}=\frac{1}{9}
$$

ex: $\left(\frac{-3}{4}\right)^{-3}=\left(\frac{4}{-3}\right)^{3}=\left(\frac{4}{-3}\right)\left(\frac{4}{-3}\right)\left(\frac{4}{-3}\right)=\frac{64}{-27}=\frac{-64}{27}=-\frac{64}{27}$

$$
\operatorname{ex}:\left(\frac{9}{16}\right)^{-3 / 2}=\left(\frac{16}{9}\right)^{3 / 22}=\sqrt{2}_{\left(\frac{16}{9}\right)^{3}}=\left[\sqrt{\frac{16}{9}}\right]^{3}=\left[\frac{\sqrt{16}}{\sqrt{9}}\right]^{3}
$$

$$
=\left[\frac{4}{3}\right]^{3}=\left(\frac{4}{3}\right)\left(\frac{4}{3}\right)\left(\frac{4}{3}\right)\left(=\frac{64}{27}\right)
$$

HW: Pg. 233
\# $4,6-9,11,14$

