Rewrite each of the following as a single power of 7.

1.
$$(49^{\frac{1}{3}})(7^{-\frac{1}{4}})$$

$$(7^{2})^{\frac{1}{3}} = 7^{\frac{2}{3}}, 7^{-\frac{1}{4}}$$

$$7^{\frac{6}{12}}, 7^{-\frac{2}{6}} = 7^{\frac{5}{16}}$$

2.
$$\frac{\sqrt[3]{7}}{\sqrt{7}}$$