$$\frac{i}{i} \frac{1}{1} = \frac{1}{i'} \frac{1}{1} = \frac{1}{i'} \frac{1}{1} = \frac{1}{i'} \frac{1}{1} = \frac{\delta_{i'}^{i}}{2^{1/4}}$$

$$\frac{i}{i} \frac{2}{2} = \frac{2}{i'} \frac{1}{2} = \frac{2}{i'} \frac{1}{2} = \frac{2}{i'} \frac{1}{2} = \frac{2}{i'} \frac{1}{2^{1/4}}$$
(b)
$$\frac{1}{i} \frac{2}{2^{1/4}} = \frac{2}{i'} \frac{1}{2^{1/4}}$$