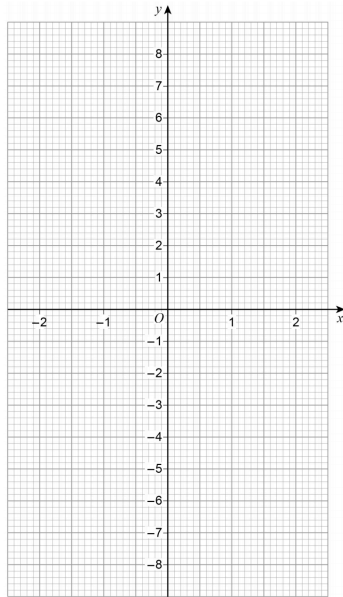




Show algebraically that

$$0.9\dot{1}\dot{3}$$

can be written as $\frac{452}{495}$

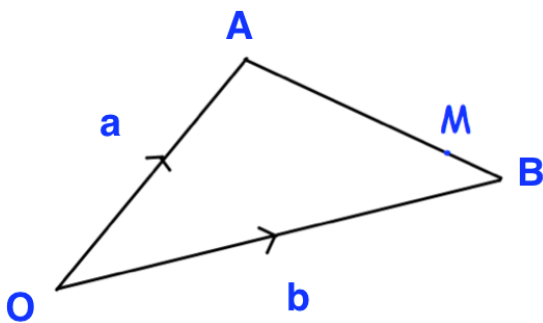


$$f(x) = \frac{x + 1}{3}$$

Find $f^{-1}(x)$

Draw

$y = f(x)$ and $y = f^{-1}(x)$



OAB is a triangle.

M is a point on AB such that

$AM : MB = 5 : 2$

$$\vec{OA} = \mathbf{a} \quad \vec{OB} = \mathbf{b}$$

Express \vec{MO} in terms of \mathbf{a} and \mathbf{b}