

함수의 확대 축소

(함수의 확대 축소)

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▶ Start

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$T : (x, y)$

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$$T : (x, y) \rightarrow$$

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$$T : (x, y) \rightarrow (ax, by) \quad (a \neq 0, b \neq 0)$$

▶ Start

$$T : (x, y) \rightarrow (ax, by) \quad (a \neq 0, b \neq 0)$$
$$X = ax \quad , \quad Y = by$$

▶ Start

$$\begin{aligned} T : (x, y) &\rightarrow (ax, by) \quad (a \neq 0, b \neq 0) \\ X = ax &, \quad Y = by \\ x &= \frac{X}{a} \end{aligned}$$

▶ Start

$$\begin{aligned} T : (x, y) &\rightarrow (ax, by) \quad (a \neq 0, b \neq 0) \\ X = ax &, \quad Y = by \\ x = \frac{X}{a} &, \end{aligned}$$

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$$f(x, y) = f\left(\frac{X}{a}, \frac{Y}{b}\right)$$

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$$f(x, y) = f\left(\frac{X}{a}, \frac{Y}{b}\right), f\left(\frac{X}{a}, \frac{Y}{b}\right) = 0$$

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$$f(x, y) = f\left(\frac{X}{a}, \frac{Y}{b}\right), f\left(\frac{X}{a}, \frac{Y}{b}\right) = 0 \therefore g(X, Y) = f\left(\frac{X}{a}, \frac{Y}{b}\right)$$

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$$f(x, y) = 0$$

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$$f(x, y) = 0 \quad \rightarrow$$

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$$f(x, y) = 0 \quad \rightarrow \quad g(x, y) = 0$$

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$$\begin{aligned} f(x, y) = 0 &\rightarrow g(x, y) = 0 \\ \{(x, y) | f(x, y) = 0\} & \end{aligned}$$

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T :

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$$T : f(x, y) = 0$$

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 \end{aligned}$$

▶ Home

$$\begin{aligned} T : (x, y) &\rightarrow (ax, by) \quad (a \neq 0, b \neq 0) \\ X = ax &, \quad Y = by \\ x = \frac{X}{a} &, \quad y = \frac{Y}{b} \end{aligned}$$

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