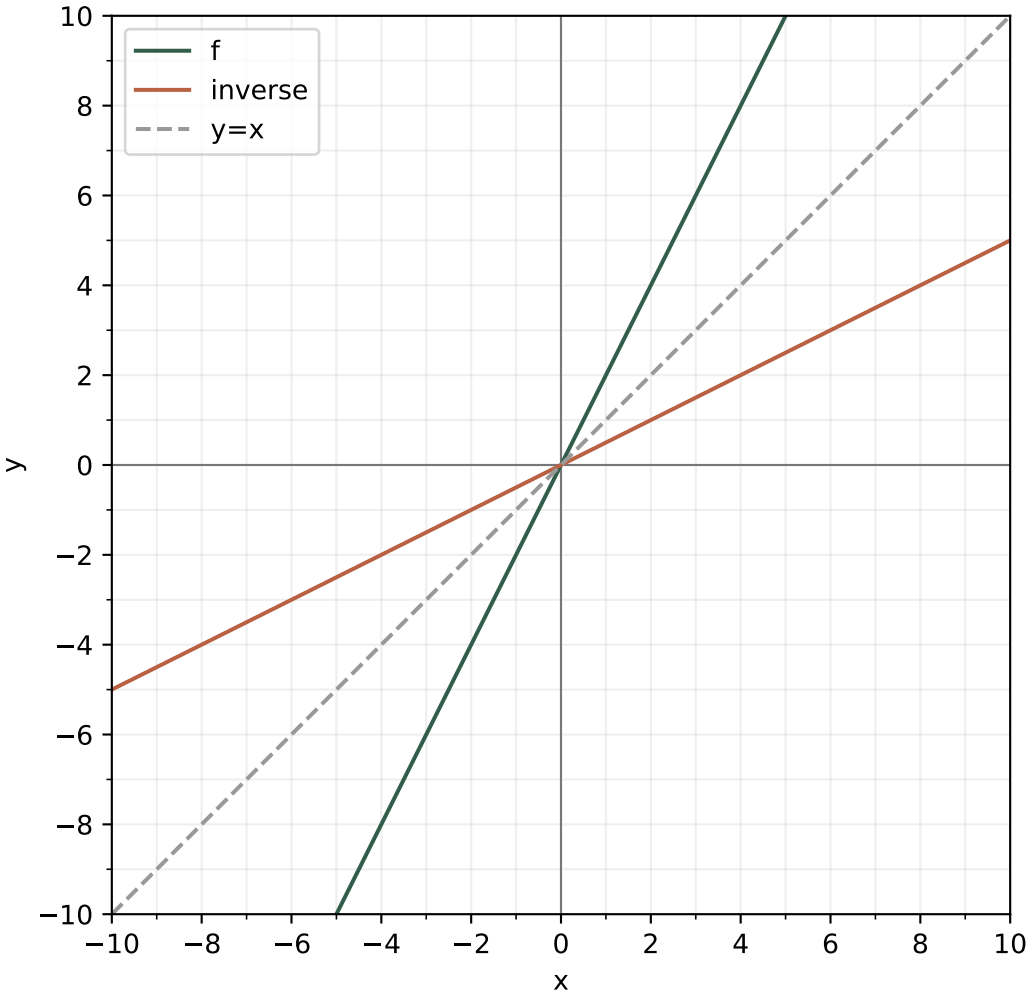
Graphing Inverse Linear Functions

REFERENCE / CASE 1

Find the inverse of f(x)=2x+(0) on all real numbers. Plot both lines and check the point (0,0).

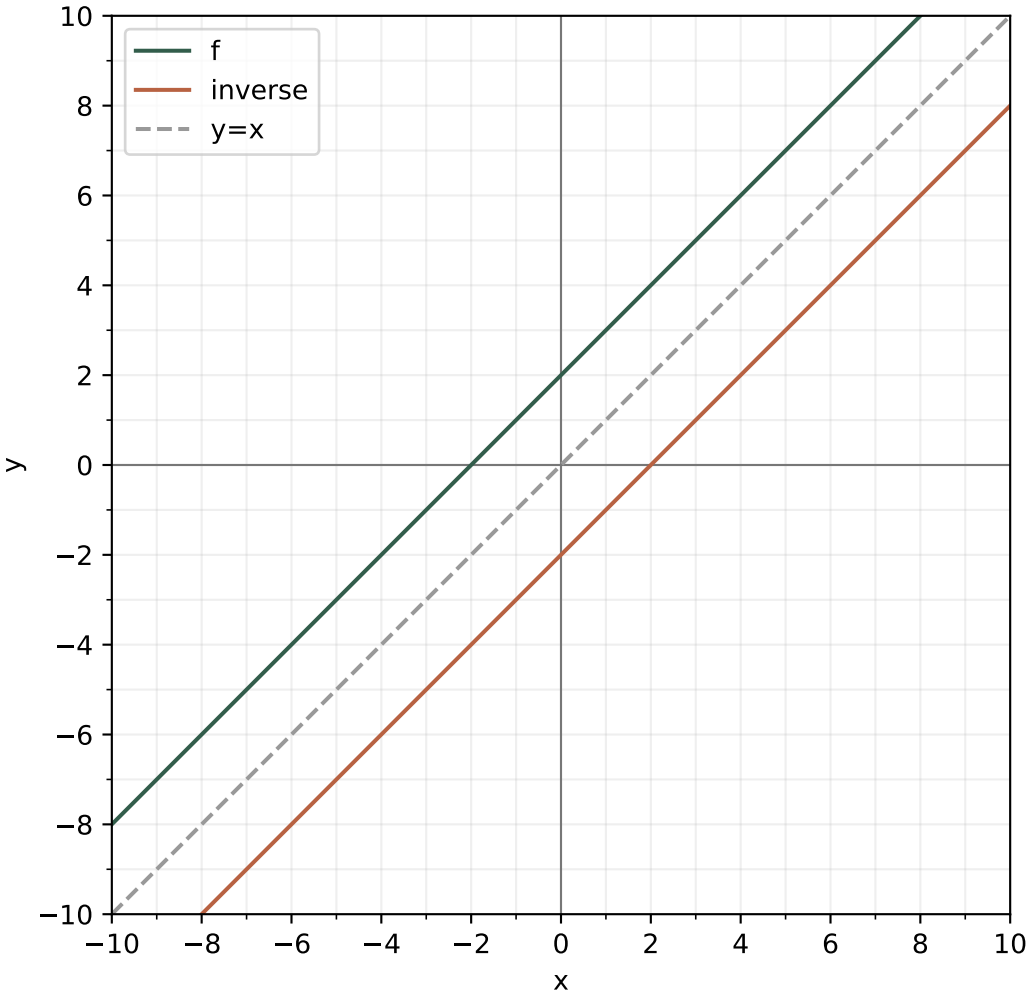


METHOD: Write y=mx+c; exchange x and y. Solve x=my+c for y=(x-c)/m. Nonzero slope makes the original one-to-one.
Reference diagram supplied. Use the separate practice sheet before checking the worked answer.

Graphing Inverse Linear Functions

REFERENCE / CASE 2

Find the inverse of f(x)=1x+(2) on all real numbers. Plot both lines and check the point (0,2).

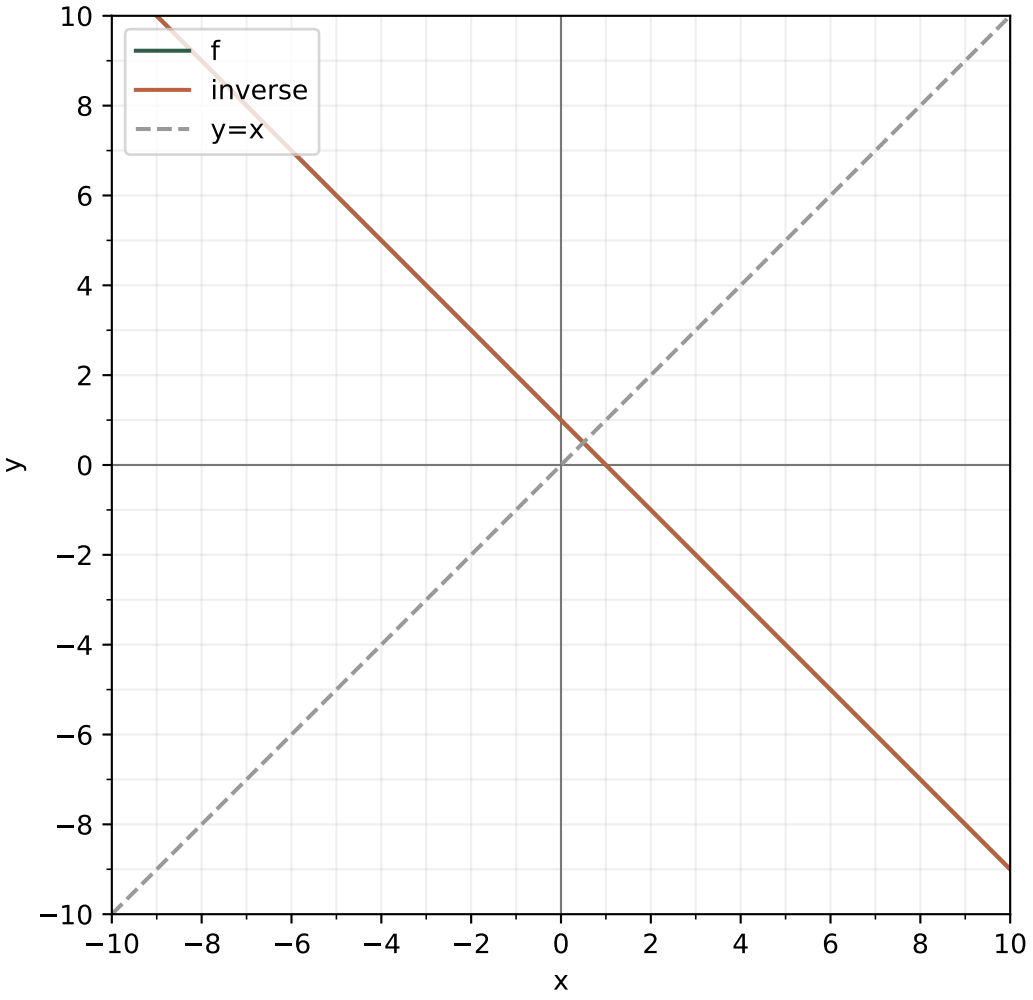


METHOD: Write y=mx+c; exchange x and y. Solve x=my+c for y=(x-c)/m. Nonzero slope makes the original one-to-one.
Reference diagram supplied. Use the separate practice sheet before checking the worked answer.

Graphing Inverse Linear Functions

REFERENCE / CASE 3

Find the inverse of f(x)=-1x+(1) on all real numbers. Plot both lines and check the point (0,1).

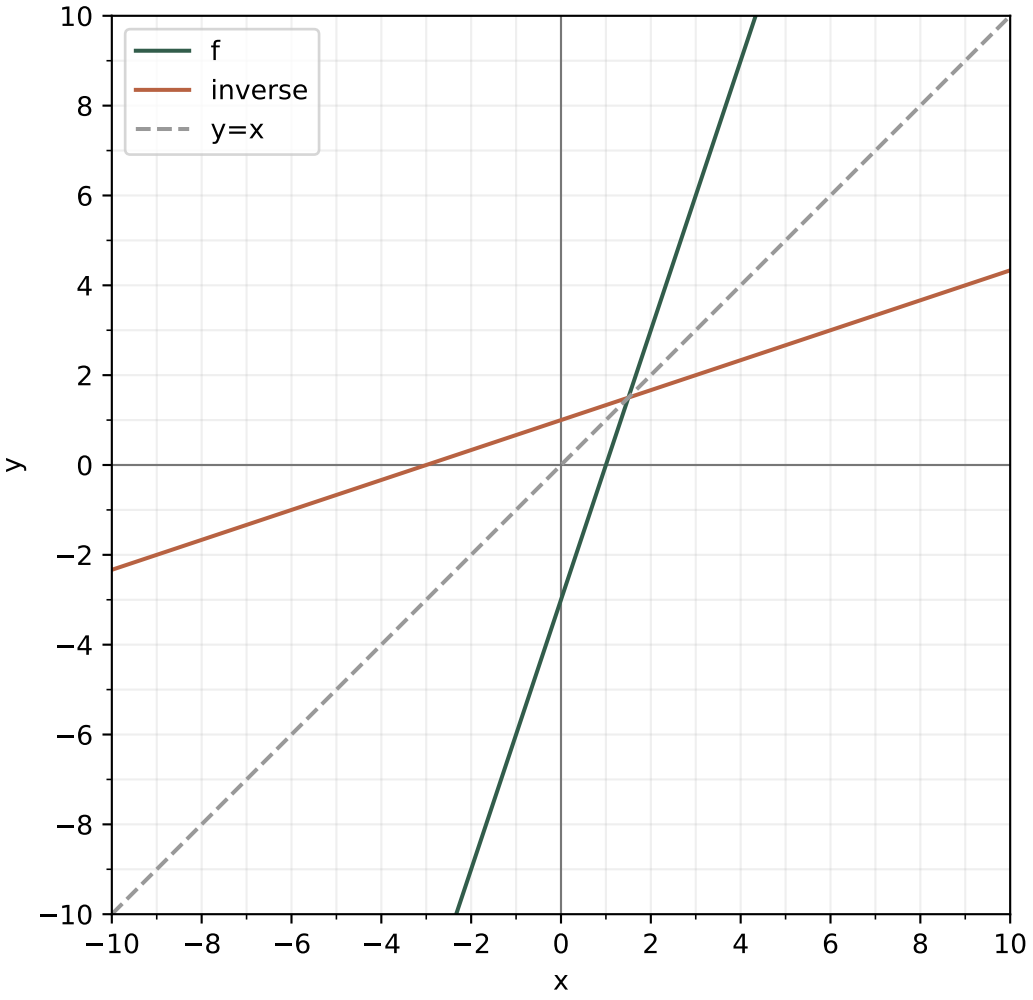


METHOD: Write y=mx+c; exchange x and y. Solve x=my+c for y=(x-c)/m. Nonzero slope makes the original one-to-one.
Reference diagram supplied. Use the separate practice sheet before checking the worked answer.

Graphing Inverse Linear Functions

REFERENCE / CASE 4

Find the inverse of f(x)=3x+(-3) on all real numbers. Plot both lines and check the point (0,-3).



METHOD: Write y=mx+c; exchange x and y. Solve x=my+c for y=(x-c)/m. Nonzero slope makes the original one-to-one.
Reference diagram supplied. Use the separate practice sheet before checking the worked answer.