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| **Fill in the Blanks** | **More Rearranging Formulae**  |

Rearrange each formula to make $x$ the subject.

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| **Question** | **Multiply by Denominator** | **Multiply out bracket** | **Collect all** $x$ **terms**  | **Take out** $x$ **as a common factor** | **Divide by bracket** |
| $$y=\frac{ax}{x-b}$$ | $$y(x-b)=ax$$ | $$xy-by=ax$$ | $$xy-ax=by$$ | $$x\left(y-a\right)=by$$ | $$x=\frac{by}{y-a}$$ |
| $$y=\frac{x}{a-x}$$ | $$y\left(a-x\right)=x$$ |  |  |  |  |
| $$y=\frac{2x}{x+b}$$ |  |  |  |  |  |
| $$2y=\frac{x}{x-1}$$ |  |  |  |  |  |
| $$y=\frac{x+a}{x+1}$$ | $$y\left(x+1\right)=x+a$$ | $$xy+y=x+a$$ | $$xy-x=a-y$$ |  |  |
| $$y=\frac{x+2}{x-a}$$ |  |  |  |  |  |
| $$y=\frac{x-a}{x-b}$$ |  |  |  |  |  |