More Rearranging Formulae

Rearrange each formula to make \boldsymbol{x} the subject.

Question	Multiply by Denominator	Multiply out bracket	Collect all x terms	Take out <i>x</i> as a common factor	Divide by bracket
$y = \frac{ax}{x - b}$	y(x-b)=ax	xy - by = ax	xy - ax = by	x(y-a)=by	$x = \frac{by}{y - a}$
$y = \frac{x}{a - x}$	y(a-x)=x	ay - xy = x	ay = x + xy	ay = x(1+y)	$x = \frac{ay}{1+y}$
$y = \frac{2x}{x+b}$	y(x+b)=2x	xy + by = 2x	by = 2x - xy	by = x(2-y)	$x = \frac{by}{2 - y}$
$2y = \frac{x}{x - 1}$	2y(x-1)=x	2xy - 2y = x	2xy - x = 2y	x(2y-1)=2y	$x = \frac{2y}{2y - 1}$
$y = \frac{x+a}{x+1}$	y(x+1) = x + a	xy + y = x + a	xy - x = a - y	x(y-1)=a-y	$x = \frac{a - y}{y - 1}$
$y = \frac{x+2}{x-a}$	y(x-a) = x+2	xy - ay = x + 2	xy - x = 2 + ay	x(y-1) = 2 + ay	$x = \frac{2 + ay}{y - 1}$
$y = \frac{x - a}{x - b}$	y(x-b)=x-a	xy - by = x - a	xy - x = by - a	x(y-1) = by - a	$x = \frac{by - a}{y - 1}$