Change subject where subject appears twice

Maths

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Change subject where subject appears twice

1. Make x the subject of these formulae.

a) $3x + yx = z$

b) $4x - yx = 3z$

c) $ax + 2yx = T + F$

d) $\frac{1}{2}x - y^2x = z$

e) $ax + bxz + z = y$

f) $5(x + yx) - a = g$

g) $a(x - 2yx) = t$

2. Make x the subject of these formulae.

a) $3x + y = ax + b$

b) $4x - y = cx - b$

c) $y + x = cx - d$

d) $5y - 2x = e + dx$

e) $\frac{1}{2}x - y = ex - f$

f) $bx - cz = e - cx$

g) $a(x - y) = ex - bc$

Answers

Change subject where subject appears twice

1. Make x the subject of these formulae.

a) $3x + yx = z$ $\frac{z}{3+y}$

b) $4x - yx = 3z$ $\frac{3z}{4-y}$

c) $ax + 2yx = T + F$ $\frac{T+F}{a+2y}$

d) $\frac{1}{2}x - y^2x = z$ $\frac{z}{\frac{1}{2}-y^2}$

e) $ax + bxz + z = y$ $\frac{y-z}{a+bz}$

f) $5(x + yx) - a = g$ $\frac{g+a}{5+5y}$

g) $a(x - 2yx) = t$ $\frac{t}{a-2ya}$

2. Make x the subject of these formulae.

a) $3x + y = ax + b$ $\frac{b-y}{3-a}$

b) $4x - y = cx - b$ $\frac{y-b}{4-c}$

c) $y + x = cx - d$ $\frac{-d-y}{1-c}$

d) $5y - 2x = e + dx$ $\frac{5y-e}{d+2}$

e) $\frac{1}{2}x - y = ex - f$ $\frac{y-f}{\frac{1}{2}-e}$

f) $bx - cz = e - cx$ $\frac{e+cz}{b+c}$

g) $a(x - y) = ex - bc$ $\frac{ya-bc}{a-e}$