# N5 Maths: Changing the Subject

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Transpose each formula to make $x$ the subject.

**Q1**

**a)** $t = x + y$ **b)** $b = x - a$ **c)** $d = x - 2c$

**d)** $e = -x$ **e)** $f = g + x$ **f)** $y = 3x$

**g)** $a = bx$ **h)** $y = abx$ **i)** $n = \frac{x}{a}$

**j)** $y = x^2$ **k)** $g = \sqrt{x}$ **l)** $\frac{x}{a} = b + c$

**m)** $y = xa^2$ **n)** $\sqrt{x} = pq$ **o)** $A = \sqrt[3]{x}$

**Q2**

**a)** $t = 2x + y$ **b)** $b = ux - a$ **c)** $\frac{x}{a} + 2u = v$

**d)** $\frac{x}{n} - de = 3f$ **e)** $j = h + ix$ **f)** $y + ax = b$

**g)** $a = y - bx$ **h)** $n = \frac{gx}{a}$ **i)** $b = \frac{a}{x}$

**j)** $y = ax^2$ **k)** $y = x^3a^2$ **l)** $n = \frac{x^2}{a}$

**m)** $R = h\sqrt{x}$ **n)** $t = \frac{\sqrt{x}}{a}$ **o)** $\frac{p}{\sqrt{x}} = q$

**Q3**

**a)** $p = \sqrt{x + d}$ **b)** $Q = rx^2 - a$ **c)** $n = \frac{\sqrt{x}}{e} - 2u$

**d)** $g = x(a + b)$ **e)** $g = ax + bx$ **f)** $F = \sqrt{2x - y}$

**g)** $y = \frac{1}{2}(x + 3)$ **h)** $p = \sqrt{x^2 - 1}$ **i)** $r = a\sqrt{x} + b$

**j)** $s = ij + 2kx^2$ **k)** $y = \frac{3}{4}x$ **l)** $C = \frac{x + w^2}{d}$

**m)** $L = \sqrt{4x - m}$ **n)** $u = \frac{\sqrt{xy}}{w}$ **o)** $T = \sqrt[3]{5x + d}$

**p)** $y - b = m(x - a)$ **q)** $A = \frac{x}{360}(\pi r^2)$ **r)** $e^2 = f^2 + 2gx$

**s)** $A = \frac{1}{2}h(x + y)$ **t)** $n + 2t = \frac{\sqrt{x}}{n}$ **u)** $h = \frac{1}{4}g^2x^3 - v$

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