Rearrange the formula to make t the subject.

$$y = \frac{2pt}{p-t}$$

Make s the subject of the formula

$$v^2 = u^2 + 2as$$

Simplify fully
$$\frac{x^2 - 8x + 15}{2x^2 - 7x - 15}$$



Make b the subject of the formula $a = \frac{2-7b}{b-5}$

$$\frac{5}{x+2} = \frac{4-3x}{x-1}$$

can be rearranged to give $3x^2 + 7x - 13 = 0$

Show that the equation

Give your answer in its simplest form.

Solve the equation

$$\frac{x}{2x-3} + \frac{4}{x+1} = 1$$

Simplify fully
$$\frac{x^2 + x - 6}{x^2 - 7x + 10}$$

Make q the subject of the formula 5(q+p) = 4 + 8p

Show that

$$\frac{(a+b)^2 + (a-b)^2}{2} = a^2 + b^2$$

$$\frac{7}{x+2} + \frac{1}{x-1} = 4$$

Solve the equation

Make q the subject of the formula

 $x = \frac{p - q}{pq}$

Rearrange
$$\frac{1}{u} + \frac{1}{v} = \frac{1}{f}$$
 (13)

to make u the subject of the formula.

Simplify
$$\frac{x-3}{x^2-9}$$

Make h the subject of the formula $d = \sqrt{\frac{3h}{2}}$

Rearrange the formula to make a the subject.

$$P = \frac{n^2 + a}{n + a}$$

$$\frac{x}{x+c} = \frac{p}{q}$$

Make x the subject of the formula.

Simplify fully
$$\frac{x^2 + 5x + 6}{x^2 + 2x}$$

Simplify fully
$$\frac{x^2 + 5x + 6}{x^2 + 2x}$$
 Solve $\frac{3}{x} + \frac{3}{2x} = 2$

Make p the subject of the formula

(20)
$$4(p-2q) = 3p + 2$$

Simplify fully
$$\frac{25 - x^2}{25 + 5x}$$

Make x the subject of

$$(22) 5(x-3) = y(4-3x)$$

Rearrange a(q-c) = d to make q the subject.

26

Make r the subject of the formula

$$P = \pi r + 2r + 2a$$

Show that
$$25 - \frac{(x-8)^2}{4} = \frac{(2+x)(18-x)}{4}$$

Simplify fully

$$\frac{x^2-3x}{x^2-8x+15}$$

$$t = \frac{yp}{2p + y}$$

$$s = \frac{v^2 - u^2}{2a}$$

$$\frac{x-3}{2x+3}$$

$$b = \frac{2+5a}{a+7}$$

$$5(x-1) = (4-3x)(x+2)$$

$$5x - 5 = -3x^2 + 4x - 6x + 8$$

$$q = \frac{4+3p}{5}$$

$$x = +9$$
 or $x = +1$

$$\frac{x+3}{x-5}$$

$$x = +4$$
 or $x = -1$

$$\frac{a^{2} + 2ab + b^{2} + a^{2} - 2ab + b^{2}}{2}$$

$$\frac{2a^{2} + 2b^{2}}{2}$$

$$x = -\frac{1}{2}$$
 or $x = +\frac{3}{2}$

$$q = \frac{p}{px + 1}$$

$$u = \frac{vf}{v - f}$$

$$\frac{1}{x+3}$$

$$h = \frac{(2d)^2}{3}$$

$$a = \frac{n^2 - Pn}{P - 1}$$
 or $a = \frac{Pn - n^2}{1 - P}$

$$x = \frac{pc}{q - p}$$

$$\frac{x+3}{x}$$

$$x = \frac{9}{4}$$

$$p = 8q + 2$$

$$\frac{5-x}{5}$$

$$x = \frac{4y + 15}{5 + 3y}$$

$$q = \frac{d}{a} - c$$
 or $q = \frac{d + ac}{a}$

$$r = \frac{P - 2a}{\pi + 2}$$

$$\frac{100}{4} - \frac{x^2 - 16x + 64}{4}$$

$$\frac{36 - x^2 + 16x}{4}$$

$$\frac{x}{x-5}$$