Corbett maths

Changing the Subject: Advanced

Video 8 on www.corbettmaths.com

Examples

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Workout

Question 1: Make x the subject of each of the following

(a) $A = \frac{1}{2}(x + y)$

(b) $A = \pi r^2 + 2\pi rx$

(c) $T = 3x^2 - y$

(d) $s = \frac{m}{ax}$

(e) $s = uy + \frac{1}{2}xy^2$

(f) $\frac{1}{3}w = \frac{1}{4}x + t$

(g) $j = \frac{x + 3}{d}$

(h) $g = \frac{t}{x - 2}$

(i) $p = 3(y + 2x)^2$

(j) $12w = \frac{3}{4}(2x + a)$

Question 2: Make m the subject of the following formulae

(a) $5(m + y) = 4(m - 3y)$

(b) $3(3m + 4) = 7(m + 2a)$

(c) $15(2m + 3c) = 5(m + 7c)$

(d) $9m + 4c = 2(a + 3m)$

(e) $a(c + m) = 2(c + 3m)$

(f) $w(m + n) = x(m - n)$

(g) $8 = \frac{m + 3c}{m - f}$

(h) $y = \frac{m + 4}{m + 5}$

(i) $y = 3mt - a^2m$

(j) $r(c + 7) = 3m + 5$

(k) $x = 4\pi m + am$

(l) $2 = \frac{m + k}{m - t}$

(m) $dm = y - em$

(n) $m(c + d) = m + f$

(o) $y - mp = np + 2y$

(p) $m(r + p) = r(h - m)$

(q) $\pi x = \frac{m + 8}{m - 1}$

(r) $\frac{3m + 2}{c} = \frac{m + 1}{a}$

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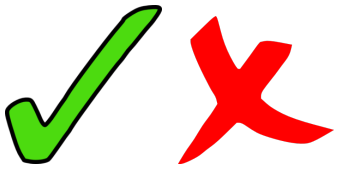
Question 3: Make c the subject of the following

(a) $w = \frac{ac}{a - c}$ (b) $w = 6 + \frac{a}{c + 2}$

Apply

Question 1: The cosine rule is $a^2 = b^2 + c^2 - 2bc \cos A$.
Make cos A the subject.

Answers



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