

Name: _____

Level 2 Further Maths



Changing the Subject

Corbettmaths

Ensure you have: Pencil or pen

Guidance

1. Read each question carefully before you begin answering it.
2. Check your answers seem right.
3. Always show your workings

Revision for this topic

www.corbettmaths.com/more/further-maths/



1. Rearrange $w = a - 4c^3$ to make c the subject

.....
(2)

2. (a) Rearrange $d = \sqrt{ab + 3}$ to make a the subject

.....
(3)

(b) Work out the value of b when $d = 16$ and $a = 4$

$b =$
(2)

3. Make h the subject of $m = 18 - (h - 3)^2$

.....
(4)

4. Rearrange $y = \frac{5(x + w)}{w}$ to make w the subject

.....
(4)

5. (a) Make r the subject of the formula $3r - 1 = 5v(2r + 3)$

.....
(4)

(b) Work out the value of r when $v = -0.5$

$r =$
(3)

6. Given $a^2 = b^2 + c^2 - 2bc\cos A$

Show that $\cos A = \frac{b^2 + c^2 - a^2}{2bc}$

(3)

7. Make m the subject of $x = \frac{3}{k - m}$

.....
(3)

8. Make x the subject of $y = \sqrt{\frac{x - 4}{x + 1}}$

.....
(5)

9. Make m the subject of $y = \frac{2m + 1}{9 - m}$

.....
(4)

10. Make y the subject of $\frac{x - 3y}{y + x} = p$

.....
(4)

11. Make h the subject of $\sqrt{\frac{r+h}{4rh}} = V$

.....
(4)

12. Make x the subject of $y = \frac{4x^3 - 9}{2x^3 + w}$

.....
(5)

13. Make q the subject of $\frac{p}{qr} = 2 + \frac{1}{r}$

.....
(4)

14. Make c the subject of $\frac{5}{a} + \frac{b}{2} - \frac{7}{c} = 0$

.....
(5)