



GCSE Foundation/Higher 02

Number



Mark scheme



15 minutes



13 marks

Powers and roots

M1. (a) x^5

B1

(b) y^3

B1

(c) $x^4 - 3x$

*B1 x^4 or $3x$
Penalise fw*

B2

[4]

M2. (64 =) 8×8

or 8^2 or $\sqrt{64} = 8$ or "8 times itself"

B1

(64 =) $4 \times 4 \times 4$

or 4^3 or $\sqrt[3]{64} = 4$

B1

[2]

M3. (a) (i) y^9

B1

(ii) y^5

B1

(iii) y^{14}

B1

(b) (i) y^{14} or (a)(iii)

ft their answers from Part (a)

B1 ft

(ii) y^5 or a(ii)

ft their answers from Part (a)

B1 ft

[5]

M4. Chooses to square any number between 0 and 1 exclusive

eg, 0.5^2 0.2×0.2 $(\frac{1}{4})^2$

A1

Evaluates correctly (conclusion can be implied)

Ignore any squaring of numbers that are not between 0 and 1 exclusive even if they mistakenly give a correct conclusion

eg, ignore $-2 \times -2 = -4$

A1

[2]

