

**Form 4      Mathematics Compulsory Part Final Examination 2014**  
**Marking Scheme**

**Section A(1) (33%)**

$$1. \quad \frac{(x^2y^{-1})^3}{x^{-1}y^3} = \frac{x^6y^{-3}}{x^{-1}y^3}$$

$$= \frac{x^7}{y^6}$$

1M+1A  
1A

$$2. \quad 2^{2x} + 2^{x+1} - 3 = 0$$

Let  $y = 2^x$ , the equation becomes

$$y^2 + 2y - 3 = 0$$

$$(y - 1)(y + 3) = 0$$

$$y = 1 \text{ or } -3$$

$$2^x = 1 \text{ or } 2^x = -3 \text{ (rejected)}$$

$$x = 0$$

1M  
1A  
1A

$$3. \quad (a) \quad m^2 - 4m + 4 = (m - 2)^2$$

$$(b) \quad mn - 2n + m^2 - 4m + 4$$

$$= (mn - 2n) + (m^2 - 4m + 4)$$

$$= n(m - 2) + (m - 2)^2$$

$$= (m - 2)(n + m - 2)$$

1A  
1M  
1A  
1A

$$4. \quad (a) \quad h = a + r(1+p^2)$$

$$h - a = r(1+p^2)$$

$$r = \frac{h-a}{1+p^2}$$

1M  
1A

(b) New value of  $r$

$$= \frac{2h-2a}{1+p^2}$$

$$= \frac{2(h-a)}{1+p^2}$$

$$= 2r$$

$\therefore r$  is also increased to twice its original value.

1M  
1A

# Exam 2014 November Caps Final Mathematics

**Katrin Zwirgmaier**



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