ERRATA



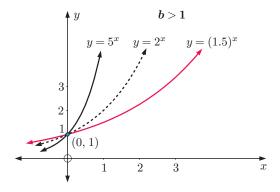
MATHEMATICAL METHODS (Second edition) MATHEMATICS FOR YEAR 12

Second edition - 2010 initial print run

page 112 REVIEW SET 2A

1 A discrete random variable X has probability distribution function $P(X=x)=k\left(\frac{3}{4}\right)^x\left(\frac{1}{4}\right)^{3-x}$ where $x=0,\,1,\,2,\,3$ and k is a constant.

page 145 **TEXT** change point label on the diagram to (0, 1):



page 360 ANSWERS, EXERCISE 7A.3 question 8c should have 6 on the x-axis placed correctly:

8 c 3x + y = 12 3x + y = 18 x + 4y = 16 x + 4y = 16

Vertices are (0, 12), (2, 6), (4, 3) and (16, 0).

page 361 ANSWERS, EXERCISE 7B should read:

EXERCISE 7B

1 $x + y \le 50$, $80x + 120y \le 4800$, $x \ge 0$, $y \ge 0$

2 $5x + y \le 15$, $x + 4y \le 12$, $x \ge 0$, $y \ge 0$

3 $8x + 6y \le 50$ {area planted must be at most 50 ha}, $x + y \le 7$ {planting must be for no more than 7 days}, $x \ge 0$, $y \ge 0$ {cannot be a negative number of planting}

4 $10x + 40y \ge 120$, $30x + 30y \ge 180$, $500x + 100y \ge 1000$, x > 0, y > 0

5 $4x + 3y \ge 20$, $3x + 5y \ge 18$, $x \ge 0$, $y \ge 0$

3 a, di (6, 0)
ii 22 at (3, 2)
iii 14 at (0, 14)
iv 0 at (0, 14)

(Diagram should have y intercept at 14 labelled and should not have shading where x<0)

page 362 ANSWERS, EXERCISE 7C.5 question 3 should read:

- **3** a $8\frac{4}{7}$ tonnes of A, $27\frac{1}{7}$ tonnes of B, profit = \$3180
 - **b** i \$3108
 - ii 10 tonnes of A, 25 tonnes of B, profit = \$3150

page 362 ANSWERS, REVIEW SET 7A questions 2 and 4 should read:

- **2 a** 6 gas meters, 3 water meters
 - **b** i 4 gas meters, 7 water meters ii \$84
- **4 a** $y \ge 1$, $3x 4y \le -4$, $7x + 5y \le 35$