



**ERRATA**  
**MATHEMATICS FOR YEAR 12**  
**MATHEMATICAL STUDIES – SECOND EDITION**  
**WORKED SOLUTIONS**

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page 11

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**15 b**  $(x - 2)(x^2 - 4x - 6) = 0$   
 $\therefore x = 2$  or  $\frac{4 \pm \sqrt{16 - 4(1)(-6)}}{2} = \frac{4 \pm \sqrt{40}}{2}$   
 $\therefore x = 2$  or  $2 \pm \sqrt{10}$

page 49

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**2 b**  $y = \frac{8}{x^2}$  at  $x = 9$   
 $f(x) = 8x^{-2}$   
 $\therefore f'(x) = -16x^{-3} = -\frac{16}{x^3}$   
and so  $f'(9) = -\frac{16}{729}$   
 $\therefore$  tangent has slope of  $-\frac{16}{729}$