# Mental Computation

If two lines are perpendicular then the product of their gradients is -1.

 $m_1 \times m_2 = -1$ 

√3

## Year 10A Mathematics

End Term 4

RIP

### Mental computation (End Term 4)

- 1 Spell Trigonometry
- 2 What is the sine rule?
- 3 What is the cos rule?
- 4 What is the area of any triangle?
- 5 Name two properties of an isosceles triangle
- 6 What is the gradient of the line y = 2x + 1?
- 7 What is the gradient of the line perpendicular to y = 3x + 1?
- 8 In the triangle, what is  $\cos 60^\circ$ ?  $\frac{x^2-5x+6}{(x-3)(x-2)}$
- 9 Factorise:  $x^2 5x + 6$
- **10** Two sides of a right-angled triangle are 1 and 1, what is the hypotenuse?

#### Mental computation (End Term 4)

- 1 Spell Pythagoras
- 2 What is the sine rule?
- 3 What is the cos rule?
- 4 What is the area of any triangle?
- 5 Name two properties of an equilateral triangle
- 6 What is the gradient of the line y = 3x + 1?
- 7 What is the gradient of the line perpendicular to y = 2x 3?
- 8 In the triangle, what is  $\cos 45^\circ$ ?
- 9 Factorise:  $x^2 4x + 3$
- 10 Two sides of a right-angled triangle are 1 and 2, what is the hypotenuse?

#### Mental computation (End Term 4)

- 1 Spell Hypotenuse
- 2 What is the sine rule?
- 3 What is the cos rule?
- 4 What is the area of any triangle?
- 5 Name two properties of a parallelogram
- 6 What is the gradient of the line y = -5x + 4?
- 7 What is the gradient of the line perpendicular to y = -5x + 2?
- 8 In the triangle, what is  $\sin 60^{\circ}$ ?
- 9 Factorise:  $x^2 7x + 6$
- 10 Two sides of a right-angled triangle are 1 and 3, what is the hypotenuse?



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