

## Higher Maths 2005

### Paper 1 Solutions

$$1. \quad m = \tan 60^\circ$$
$$m = \sqrt{3}$$

$$y - b = m(x - a)$$

$$y - 0 = \sqrt{3}(x - (-2))$$

$$y = \sqrt{3}x + 2\sqrt{3}$$

$$2. \quad \text{(a) Congruent circles} \Rightarrow \text{radii equal}$$

P = midpoint of AB

From equations; A(-3, -2) and B(3,6)

$$\Rightarrow P(0,2)$$

$$\text{(b) } AB = \sqrt{(3 - (-3))^2 + (6 - (-2))^2}$$

$$= \sqrt{(6)^2 + (8)^2}$$

$$= \sqrt{100}$$

$$= 10 \text{ units}$$

$$3. \quad \text{(a) } \overrightarrow{DF} = \frac{2}{3} \overrightarrow{DB}$$

$$\overrightarrow{DF} = \frac{2}{3} \begin{pmatrix} 6 \\ 3 \\ -9 \end{pmatrix}$$

$$\overrightarrow{DF} = \begin{pmatrix} 4 \\ 2 \\ -6 \end{pmatrix}$$

$$\Rightarrow F(10,5,3)$$

$$\text{(b) } \overrightarrow{AF} = \overrightarrow{AD} + \overrightarrow{DF}$$

$$\overrightarrow{AF} = \begin{pmatrix} -6 \\ 3 \\ 9 \end{pmatrix} + \begin{pmatrix} 4 \\ 2 \\ -6 \end{pmatrix}$$

$$\overrightarrow{AF} = \begin{pmatrix} -2 \\ 5 \\ 3 \end{pmatrix}$$

$$4. \quad \text{(a) } h(x) = g(f(x))$$

$$= g(3x - 1)$$

$$= (3x - 1)^2 + 7$$

$$\text{(b) (i) Minimum turning point at } (0,7)$$

$$\text{(ii) Range: } y \geq 7$$

$$5. \quad \frac{d}{dx} (1 + 2\sin x)^4 = 4(1 + 2\sin x)^3 \cdot 2\cos x$$
$$= 8\cos x (1 + 2\sin x)^3$$

# Paper 1 Higher Maths Old 2015 Solutions

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