

IB Mathematics AA SL - Questionbank

Topic 2 All - Functions

All Questions for Topic 2 (Functions). Properties of Functions, Quadratics, Rational Functions, Exponent-Log Functions, Transformations

Question 96



[Maximum mark: 16]

The graph of a function f has its vertex at the point $(1, 7)$ and intersects the x -axis at $x = -3$.

Find f in the form $f(x) = a(x-h)^2 + k$. $f(-3) = a(x-1)^2 + 7$ $f(-3) = 0$

The function g is defined by $g(x) = mx^2 - 2nx + \frac{2m^2}{m}$ where $x \in \mathbb{R}$, $m \in \mathbb{R}^+$ and $n \in \mathbb{R}$.

In the case where $g(-2) = g(1) = 3$,

(i) find the value of m and the value of n ;

$y=0$

$$a(-3-1)^2 + 7 = 0$$

$$16a + 7 = 0$$

$$16a = -7$$

$$a = -\frac{7}{16}$$

$$f(x) = -\frac{7}{16}(x-1)^2 + 7$$

when $x = -2$

$$(-2)^2 m - 2n \cdot (-2) + \frac{2m^2}{m} = 3$$

$$4m + 4n + \frac{2m^2}{m} = 3$$

when $x = 1$

$$(1m + 2n + \frac{2m^2}{m}) - (4m + 4n + \frac{2m^2}{m}) = 0$$

$$3m + 6n = 0$$

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Yijin Wang



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