


Formative Assessment #22 – The Mean Value Theorem & Rolle’s Theorem

C5.3: I can demonstrate an understanding of the Mean Value Theorem.

- Determine whether the MVT can be applied to f on the closed interval. If the MVT can be applied, find all values of c given by the theorem. If the MVT cannot be applied, explain why not.

a) $g(x) = \sqrt{4x - 3}$, $[1, 3]$


b) $h(x) = \frac{x^2 - 2x - 15}{x - 5}$, $[2, 7]$

| Code(s) | Learning Categories | | | | | |  |
|--------------|---------------------|----|----|----|----|----|---|
| C5.3 | EH | EL | AH | AL | NH | NL | |
| Notes | | | | | | | Assessed by: |

C5.4: I can demonstrate an understanding of Rolle’s Theorem.

- Determine whether Rolle’s Theorem can be applied to f on the closed interval. If Rolle’s Theorem can be applied, find all values c in the open interval such that $f'(c) = 0$. If Rolle’s Theorem cannot be applied, explain why not.

$f(x) = 9 - (x - 3)^2$, $[0, 6]$

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