

(4 Marks)

(2 Marks)

Link to Solutions: <https://youtu.be/QpMsC1cNvJI>

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- (3 Marks)*

- (b) Without using a calculator, evaluate $\log 6 + \log 4 + \log 20 - \log 3 - \log 16$ (3 Marks)

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③ (a) Without using a calculator, solve the equation, $\log_x 9 + \log_{x^2} 3 = 2.5$ (5 Marks)

(b) Given that $\log_9 x = m$ and $\log_{\sqrt{3}} y = n$, express the following as powers of 3.

(i) xy (ii) $\frac{x^2}{y}$ (6 Marks)

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Lined area for student work.

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