

(2 Marks)

(5 Marks)

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(3 Marks)

(4 Marks)

Link to Solutions: <https://youtu.be/h5Uz-wiS05w>

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(a) Simplify $\frac{\left(x^{\frac{3}{2}} + x^{\frac{1}{2}}\right)\left(x^{\frac{1}{2}} - x^{-\frac{1}{2}}\right)}{\left(x^{\frac{3}{2}} - x^{\frac{1}{2}}\right)^2}$

(b) Simplify $\frac{(4 \times 2^{n+1} - 2^{n+2})}{(2^{n+1} - 2^n)}$

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