

- ① $y = 3x^8 - \frac{5}{x^2}$, Work out $\frac{dy}{dx}$. © www.formular1maths.com
Link to Solutions: <https://youtu.be/Ysjenov58z4>



Calculations and Answer

Green Pen Corrections and Notes

(3)

- ② In the expansion of $(a + 2x)^6$, the coefficient of the term containing x^4 is 15.

Work out the possible values of a . © www.formular1maths.com
Link to Solutions: <https://youtu.be/Ysjenov58z4>

Green Pen Corrections and Notes

Calculations and Answer

(4)

- ③ $f(x) = \left(\frac{8x}{3}\right)^{-1}$ and $g(x) = \sqrt{1 - qx^5}$ where q is a constant

© www.formular1maths.com
Link to Solutions: <https://youtu.be/Ysjenov58z4>

Given that $f\left(\frac{1}{2}\right) = g\left(\frac{1}{2}\right)$ work out the value of q .

Green Pen Corrections and Notes

Calculations and Answer

(5)