

Attendance Check-in #10

Markay Morris

(a)  $\int (6t^2 - 8t + 7) dt$

$$= 6 \left( \frac{t^{2+1}}{2+1} \right) - 8 \left( \frac{t^{1+1}}{1+1} \right) + 7t + C$$

$$= 6 \left( \frac{t^3}{3} \right) - 8 \left( \frac{t^2}{2} \right) + 7t + C$$

$$\rightarrow 2t^3 - 4t^2 + 7t + C$$

(b)  $\int (4x^2 - 5x + 7) dx$

$$\rightarrow \int (4x^2 - 5x + 7) dx$$

$$\rightarrow 4 \left( \frac{x^{2+1}}{2+1} \right) - 5x + 7x^{-1} + C$$

$$4 \left( \frac{x^3}{3} \right) - 5x + 7 \ln|x| + C$$

$$\rightarrow 2x^3 - 5x + 7 \ln|x| + C$$