

Work out:

$$\int 9(3x + 1)^5 \cdot dx$$

$$\int x(x^2 + 1)^{\frac{1}{2}} \cdot dx$$

$$\int \frac{2x+1}{(x^2+x+1)^3} \cdot dx$$

Then:

1. Make up an easy, then a difficult question like this (on the back of this sheet).
2. Make up a question like this involving sin and cos.
3. What are these all examples of? Give this type of question a name.