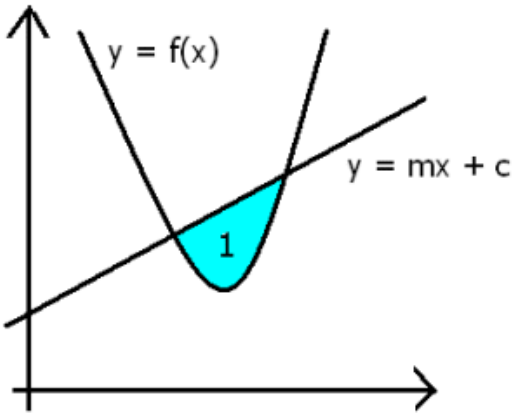
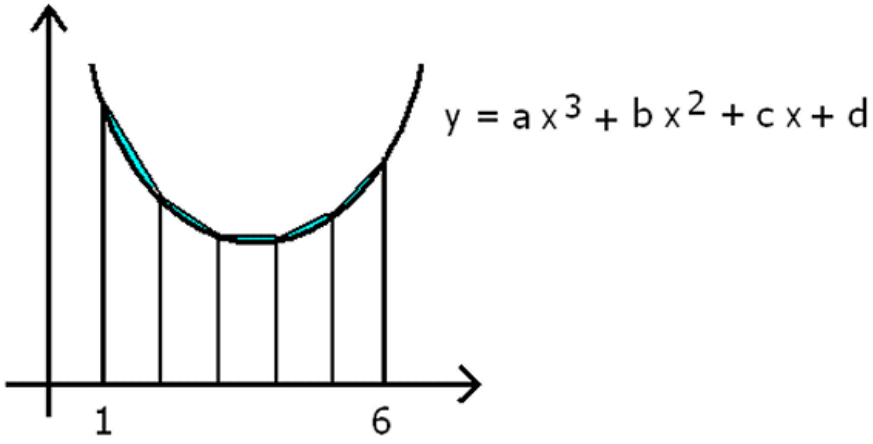
Risp 25: The answer's 1: what's the question?

1



Find a possible f(x) and mx + c in the diagram above.

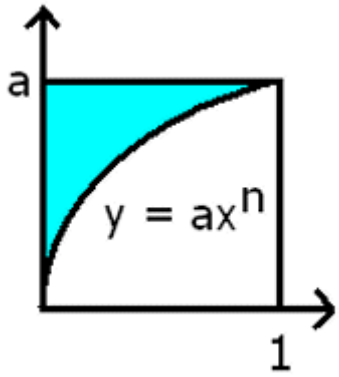
2



In the diagram above, the Trapezium Rule with five strips overestimates the area under the curve between x = 1 and x = 6 by exactly 1 square unit.

Find possible values for a, b, c and d.

3



If you rotate $y = ax^n$ between 0 and 1 about the x-axis, you get volume V_1.

If you rotate $y = ax^n$ between 0 and a about the y-axis, you get volume V_2.

If $V_1 - V_2 = 1$, find possible values for a and n.

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