

Solving Integrals

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In each case, explain which *principles* you use:

1. Integrate with respect to x : $y(x) = 2x - 5$

2. Integrate with respect to x : $y(x) = x^3 + x^2$

3. Integrate with respect to x : $y(x) = -3/x$

4. Integrate with respect to x : $y(x) = e^x$

5. Integrate with respect to x : $y(x) = e^{ix} = \cos(x) + i \sin(x)$