

③ a)

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$$i) \int 3x^3 - 5x^2 + 3x - 10 dx$$

$$= \frac{3x^4}{4} - \frac{5x^3}{3} + \frac{3x^2}{2} - 10x + C$$

$$ii) \int (x+5)(x+3)(x-2) dx$$

	x	3
x	x^2	$3x$
5	$5x$	15

$$\int (x^2 + 8x + 15)(x-2) dx$$

$$\int (x^3 + 8x^2 + 15x - 2x^2 - 16x - 30) dx$$

$$\int x^3 + 6x^2 - x - 30 dx$$

$$= \frac{x^4}{4} + 2x^3 - \frac{x^2}{2} - 30x + C$$
