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	Klasse: 20		Dato: 31. august 2022	Fag: Matematik A

Opgave 357

Opgave A)

$$\int_0^1 x^3 dx$$

$$F(x) = \frac{1}{4}x^4$$

$$F(b) - F(a)$$

$$F(1) - F(0)$$

$$\frac{1}{4} - 0 = \frac{1}{4}$$

Opgave B)

$$\int_{-1}^0 x^3 dx$$

$$F(x) = \frac{1}{4}x^4$$

$$F(b) - F(a)$$

$$F(-1) - F(0)$$

$$-\frac{1}{4} - 0 = -\frac{1}{4}$$

Opgave C)

$$\int_{-1}^1 x^3 dx$$

$$F(x) = \frac{1}{4}x^4$$

$$F(1) - F(-1)$$

$$\frac{1}{4} - \left(-\frac{1}{4}\right) = 0$$