

2019-2020 2

MATH011512 II A 60

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B

A B

- 1  $\int_C \frac{x}{\sqrt{x^2 + y^2}} e^{t^2} dt - \frac{z}{x}$  5 10
- 2  $\int_C \arctan \frac{y}{x} dz$
- 3  $\int_C x, y xyz e^z - 1 - \frac{z}{x}$
- 4  $\int_C \sqrt{x^2 + y^2} - z^2$
- 5  $\frac{x-1}{1} - \frac{y}{2} - \frac{z}{1}, \frac{x}{1} - \frac{y-1}{2} - \frac{z-1}{1}$
- 6  $\int_C xy \quad x+y+z+9=0$  10
- 7  $\int_C xy^2 - 1 - 1$  10
- 8  $\int_0^1 dx \int_0^x f(x, y) dy - \int_1^2 dx \int_0^{2-x} f(x, y) dy$  10
- 9  $\int_C x^2 - y^2 - z - 1 \quad \int_C x \sin y^2 - z^2 dxdydz$  10
- 10  $f(x) \quad f(0, 0) \quad f(0, 7)$  10

$$\lim_{t \rightarrow 0} \frac{1}{t^7} \int_{x^2+y^2+z^2=t^2} z^2 f(x^2-y^2-z^2) \, dx dy dz$$

1.

2.

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