

Lecture Handout #24: Nov 22

Common Antiderivatives

Function	Antiderivative	Function	Antiderivative
$2x$	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

Evaluating Definite Integrals

Evaluate using the Fundamental Theorem: \int _____ $dx =$ _____

Integrand $f(x) =$ _____ $G(\text{_____}) - G(\text{_____}) =$ _____ - _____

Antiderivative $G(x) =$ _____ $=$ _____

Finding Specific Antiderivatives

Marginal cost for a factory: $C'(q) =$ _____ Fixed cost: _____ 200

- $C(q) = \int$ _____ $dq =$ _____
- Total cost: $C(q) =$ _____
- Cost of 10 units: _____ 20 units: _____

Happy Thanksgiving!