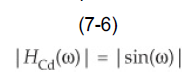
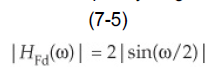
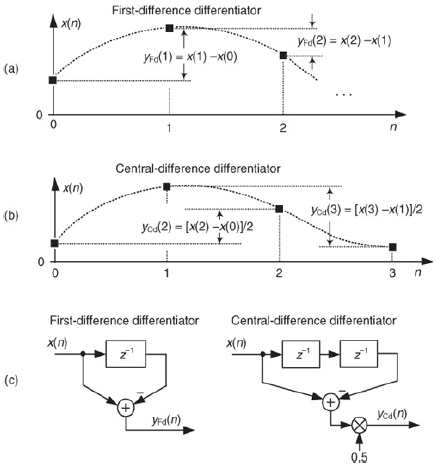
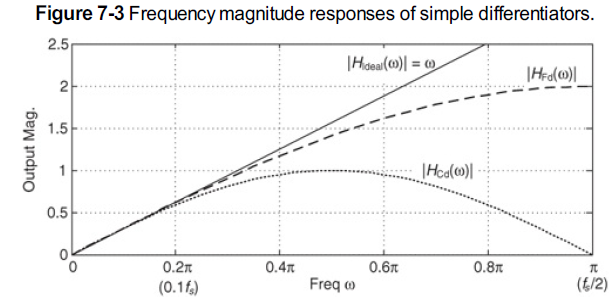
# Disposition 6 – Differentiation og Integration

## Differentiation

* Anvendes når noget skal differentieres -> højpas filter
* Sinus differentieres som -> beskriver ideelt set hvordan sinus diff.
* Sinus funktions frekvens respons -> vokser med faktor -> efterlignes ved filter design
* First-difference og central difference -> forstærkning af høj-frekvent støj -> længere lineær gg





|  |
| --- |
|  |
|  |

* Wide-band differentiator

## Integration

* Integration -> giver arealet under kurven -> lavpas filter
* Rektangulær implementering
* Input summeres over tid -> kernen i integration







