## @startuml title Function Class and Nodes

```
Function o- Node
Node ;— BinaryOperator
\begin{array}{ll} \text{Node} & \longleftarrow \text{UnaryOperator} \\ \text{Node} & \longleftarrow \text{N}_a ryOperator \end{array}
Node < |--Symbol\>
N_a ry Operator < |-Plus|
N_a ry Operator < |-Minus|
N_a ry Operator < |-Times|
BinaryOperator < |-Divide
UnaryOperator < |--Negate
UnaryOperator < |-Exp|
UnaryOperator < |-Log|
UnaryOperator < |-Sine
UnaryOperator < |--Cosine|
N_a ry Operator < |--User Defined
Symbol < |--Variable|
Symbol < |-PathVariable|
Symbol < |-Coefficient|
interface Node disallow empty instantiation? this might be a chieved by pure virtual is m--public--+ abstract
```

 $interface Binary Operator -- public -- virtual add Leaf(Node*leaf) -- private -- -Node*left node\_Node*leaf(Node*leaf) -- -Node*leaf(Node*leaf) -- -- -- --$