Calculating *First* for the grammar:

```
Expr   -> Term Expr'
Expr'  -> + Term Expr' | - Term Expr' | ε
Term   -> Factor Term'
Term'  -> * Factor Term' | / Factor Term' | ε
Factor -> (Expr) | num | id
```

	num	id	+	-	*	/	(	)	ε
	num	id	+	-	*	/	(	)	ε

Rule	Expr	Expr'	Term	Term'	Factor

1. If X is a terminal, then First(X) is {X}
2. If $X \rightarrow \varepsilon$ is a production, then add ε to First(X)
3. Let $X \rightarrow Y_1\ Y_2 \ldots Y_k$ be a production:
   a. If *a* is in First(Y_1), then place *a* is in First(X).
   b. If ε is in all of First(Y_1), …, First(Y_{i-1}), that is $Y_1 \ldots Y_{i-1} =>^* \varepsilon$, then place all *a* in First(Y_i) into First(X).
   c. If ε is in First(Y_j) for all j = 1, 2, …,k, then add ε to First(X).