M(X) = X^7+X^5+1, G(x)=X^3+1

Do the Long division: X^r M(X) / G(x).

Binary:

X^7+X^5+1 = 10100001

X^3+1 = 1001

```
          10110
       ┌──────────
1001 | 10100001
       - 1001
         1100
        - 1001
          1010
        - 1001
           111
```

Answer: 10110 Remainder: 111