Class Prep 1.3.2 – 2.1.2

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Section 1.3.2 Efficiency

```
library(cmna)
f = c(30, -19, -15, 3, 1)
x = c(-1, 0, 1)
naivepoly(x, f)
```

```
## [1] 32 30  0
```

```
betterpoly(x, f)
```

```
## [1] 32 30  0
```

```
horner(x, f)
```

```
## [1] 32 30  0
```

##Section 1.3.3

```
nthroot(100, 2)
```

```
## [1] 10
```

```
nthroot(65536, 4)
```

```
## [1] 16
```

```
nthroot(1000, 3)
```

```
## [1] 10
```

```
nthroot(pi, 2)
```

```
## [1] 1.772454
```

```
100^(1/2)
```

```
## [1] 10
```

```
65536^(1/4)
```

```
## [1] 16
```

```
1000^(1/3)
```

```
## [1] 10
```

```
pi^(.5)
```
```
## [1] 1.772454
```

Sections 2.1.1 & 2.1.2

No code in these sections