```
4. Which of the following are correct calculations for difference quotient of: y(j)=2\ j+6 y(j)=2\ j+6 y(j+h)=2\ (h+j)+6 =2\ h+2\ j+6 \frac{y(j+h)-y(j)}{h}=\frac{(2\ h+2\ j+6)-(2\ (j+1)+6)}{h}
```

```
= \frac{2h}{h}
= \frac{h(2)}{h}
= 2
y(j) = 2j + 6
y(j+h) = 2(h+j) + 6
= 2h + 2j + 8
\frac{y(j+h) - y(j)}{h} = \frac{(2h+2j+8) - (2j+6)}{h}
= \frac{2h}{h}
= \frac{h(2)}{h}
```

```
y(j+h)-y(j) = \frac{(2h+2j+6)-(2j+6)}{h}
= \frac{2h}{h}
= \frac{h(2)}{h}
= 2
y(j+h)=2(h+j)+6
y(j+h)=2(h+j)+6
= 2h+2j+4
\frac{y(j+h)-y(j)}{h} = \frac{(2h+2j+10)-(2j+6)}{h}
= \frac{2h}{h}
```

Solution

 $=\frac{h(2)}{1}$

=2

=2

y(j) = 2j + 6

=2h+2j+6

y(j+h) = 2(h+j) + 6