4. Which of the following are correct calculations for difference quotient of:  $t\left(p\right)=p+9$   $t\left(p\right)=p+9$ 

```
t(p+h) = h + p + 9
= h + p + 9
\frac{t(p+h) - t(p)}{h} = \frac{(h+p+9) - (p+10)}{h}
= \frac{h}{h}
= \frac{h(1)}{h}
= 1
```

t(p+h) = h + p + 9

= h + p + 10

```
 \begin{aligned} & = \frac{h}{h} \\ & = \frac{h(1)}{h} \\ & = 1 \end{aligned}   \begin{aligned} & t(p) = p + 9 \\ & t(p+h) = h + p + 9 \\ & = h + p + 9 \\ & = h + p + 9 \\ & \frac{t(p+h) - t(p)}{h} = \frac{(h+p+9) - (p+9)}{h} \end{aligned}
```

 $\frac{t\left(p+h\right)-t\left(p\right)}{}=\frac{\left(h+p+10\right)-\left(p+9\right)}{}$ 

```
t(p) = p + 9
t(p+h) = h + p + 9
= h + p + 8
\frac{t(p+h) - t(p)}{h} = \frac{(h+p+11) - (p+9)}{h}
= \frac{h}{h}
= \frac{h(1)}{h}
= 1
```

## Solution

 $=\frac{h\left(1\right)}{h}$ 

=1