4. Which of the following are correct calculations for difference quotient of: p(q) = 7 q + 8 p(q) = 7 q + 8 p(q+h) = 7 (h+q) + 8 = 7 h + 7 q + 8 p(q+h) = p(q) = (7h+7q+8) = (7(q+1)+8)

```
p(q) = 7 q + 8
p(q+h) = 7 (h + q) + 8
= 7 h + 7 q + 1
\frac{p(q+h) - p(q)}{h} = \frac{(7 h + 7 q + 22) - (7 q + 8)}{h}
= \frac{7 h}{h}
= \frac{h(7)}{h}
= 7
```

## Solution

 $=\frac{7 \text{ h}}{\text{h}}$ 

 $=\frac{h(7)}{\cdot}$