4. Which of the following are correct calculations for difference quotient of: f(q) = 8 q + 2 f(q) = 8 q + 2 f(q+h) = 8 (h+q) + 2 = 8 h + 8 q + 2 f(q+h) = f(q) = (8h+8q+2) = (8(q+1)+2)

$$f(q) = 8 q + 2$$

$$f(q+h) = 8 (h + q) + 2$$

$$= 8 h + 8 q + 2$$

$$\frac{f(q+h) - f(q)}{h} = \frac{(8 h + 8 q + 2) - (8 q + 2)}{h}$$

$$= \frac{8 h}{h}$$

$$= \frac{h(8)}{h}$$

$$= 8$$

```
f(q) = 8 q + 2
f(q+h) = 8 (h+q) + 2
= 8 h + 8 q - 6
\frac{f(q+h) - f(q)}{h} = \frac{(8 h+8 q+18) - (8 q+2)}{h}
= \frac{8 h}{h}
= \frac{h(8)}{h}
= 8
```

Solution

 $=\frac{h(8)}{1}$

=8