1. Which of the following are correct calculations for difference quotient of: $b(t) = 4\,t + 7$ $b(t) = 4\,t + 7$

$$b(t+h) = 4(h+t) + 7$$

$$= 4h + 4t + 7$$

$$\frac{b(t+h) - b(t)}{h} = \frac{(4h+4t+7) - (4(t+1)+7)}{h}$$

$$= \frac{4h}{h}$$

$$= \frac{h(4)}{h}$$

$$= 4$$

$$b(t) = 4t + 7$$

$$b(t+h) = 4(h+t) + 7$$

$$\begin{array}{c} b \ (t+h) = 4 \ (h+t) + 7 \\ = 4 \ h + 4 \ t + 11 \\ \frac{b \ (t+h) - b \ (t)}{h} = \frac{(4 \ h + 4 \ t + 11) - (4 \ t + 7)}{h} \\ = \frac{4 \ h}{h} \\ = \frac{h \ (4)}{h} \\ = 4 \end{array}$$

$$\frac{b(t+h)-b(t)}{h} = \frac{(4h+4t+7)-(4t+7)}{h}$$

$$= \frac{4h}{h}$$

$$= \frac{h(4)}{h}$$

$$= 4$$

$$b(t) = 4t + 7$$

$$b(t+h) = 4(h+t) + 7$$

$$= 4h + 4t + 3$$

$$b(t+h)-b(t) = \frac{(4h+4t+15)-(4t+7)}{h}$$

b(t+h) = 4(h+t) + 7

=4h+4t+7

Solution

= 4 h

 $=\frac{h(4)}{\cdot}$

=4