2. Which of the following are correct calculations for difference quotient of: $b\left(v\right)=3\ v+1$ $b\left(v\right)=3\ v+1$

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\begin{array}{l} b \ (v+h) = 3 \ (h+v) \ + 1 \\ = 3 \ h + 3 \ v + 1 \\ \frac{b \ (v+h) - b \ (v)}{h} = \frac{(3 \ h+3 \ v+1) - (3 \ (v+1) + 1)}{h} \\ = \frac{3 \ h}{h} \\ = \frac{h \ (3)}{h} \\ = 3 \end{array}
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$$\begin{array}{l} b \ (v) = 3 \ v + 1 \\ b \ (v+h) = 3 \ (h+v) \ + 1 \\ = 3 \ h + 3 \ v + 4 \\ \frac{b \ (v+h) - b \ (v)}{h} = \frac{(3 \ h+3 \ v+4) - (3 \ v+1)}{h} \\ = \frac{3 \ h}{h} \\ = \frac{h \ (3)}{h} \\ = 3 \end{array}$$

$$\begin{array}{c} b \ (v) = 3 \ v + 1 \\ b \ (v+h) = 3 \ (h+v) + 1 \\ = 3 \ h + 3 \ v + 1 \\ \frac{b \ (v+h) - b \ (v)}{h} = \frac{(3 \ h+3 \ v+1) - (3 \ v+1)}{h} \\ = \frac{3 \ h}{h} \\ = \frac{h \ (3)}{h} \\ = 3 \end{array}$$

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\begin{array}{c} b \ (v) = 3 \ v + 1 \\ b \ (v+h) = 3 \ (h+v) \ + 1 \\ = 3 \ h + 3 \ v - 2 \\ \frac{b \ (v+h) - b \ (v)}{h} = \frac{(3 \ h+3 \ v+7) - (3 \ v+1)}{h} \\ = \frac{3 \ h}{h} \\ = \frac{h \ (3)}{h} \\ = 3 \end{array}
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Solution