5. Which of the following are correct calculations for difference quotient of: s(z) = 9z + 1 s(z) = 9z + 1 s(z+h) = 9(h+z) + 1

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\begin{split} &s \ (z+h) = 9 \ (h+z) + 1 \\ &= 9 \ h + 9 \ z + 1 \\ &\frac{s \ (z+h) - s \ (z)}{h} = \frac{(9 \ h + 9 \ z + 1) - (9 \ (z+1) + 1)}{h} \\ &= \frac{9 \ h}{h} \\ &= \frac{h \ (9)}{h} \\ &= 9 \end{split}
&s \ (z) = 9 \ z + 1 \\ &s \ (z+h) = 9 \ (h+z) + 1 \\ &= 9 \ h + 9 \ z + 10 \\ &\frac{s \ (z+h) - s \ (z)}{s \ (z+h) - s \ (z)} = \frac{(9 \ h + 9 \ z + 10) - (9 \ z + 1)}{s \ (2 + 1)} \end{split}
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\begin{array}{c} s \ (z) = 9 \ z + 1 \\ s \ (z+h) = 9 \ (h+z) + 1 \\ = 9 \ h + 9 \ z - 8 \\ \frac{s \ (z+h) - s \ (z)}{h} = \frac{(9 \ h + 9 \ z + 19) - (9 \ z + 1)}{h} \\ = \frac{9 \ h}{h} \\ = \frac{h \ (9)}{h} \\ = 9 \end{array}
```

Solution

 $=\frac{9 \text{ h}}{\text{h}}$

 $= \frac{h(9)}{h}$