

5. Which of the following are correct calculations for difference quotient of:

$$s(z) = 9z + 1$$

$$s(z) = 9z + 1$$

$$s(z+h) = 9(h+z) + 1$$

$$= 9h + 9z + 1$$

$$\frac{s(z+h) - s(z)}{h} = \frac{(9h + 9z + 1) - (9(z+1) + 1)}{h}$$

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

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

$$= 9$$

$$s(z) = 9z + 1$$

$$s(z+h) = 9(h+z) + 1$$

$$= 9h + 9z + 10$$

$$\frac{s(z+h) - s(z)}{h} = \frac{(9h + 9z + 10) - (9z + 1)}{h}$$

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

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

$$= 9$$

$$s(z) = 9z + 1$$

$$s(z+h) = 9(h+z) + 1$$

$$= 9h + 9z + 1$$

$$\frac{s(z+h) - s(z)}{h} = \frac{(9h + 9z + 1) - (9z + 1)}{h}$$

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

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

$$= 9$$

$$s(z) = 9z + 1$$

$$s(z+h) = 9(h+z) + 1$$

$$= 9h + 9z - 8$$

$$\frac{s(z+h) - s(z)}{h} = \frac{(9h + 9z + 19) - (9z + 1)}{h}$$

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

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

$$= 9$$

Solution