

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

$$s(r) = 9r + 3$$

$$s(r) = 9r + 3$$

$$s(r+h) = 9(h+r) + 3$$

$$= 9h + 9r + 3$$

$$\frac{s(r+h) - s(r)}{h} = \frac{(9h + 9r + 3) - (9(r+1) + 3)}{h}$$

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

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

$$= 9$$

$$s(r) = 9r + 3$$

$$s(r+h) = 9(h+r) + 3$$

$$= 9h + 9r + 12$$

$$\frac{s(r+h) - s(r)}{h} = \frac{(9h + 9r + 12) - (9r + 3)}{h}$$

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

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

$$= 9$$

$$s(r) = 9r + 3$$

$$s(r+h) = 9(h+r) + 3$$

$$= 9h + 9r + 3$$

$$\frac{s(r+h) - s(r)}{h} = \frac{(9h + 9r + 3) - (9r + 3)}{h}$$

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

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

$$= 9$$

$$s(r) = 9r + 3$$

$$s(r+h) = 9(h+r) + 3$$

$$= 9h + 9r - 6$$

$$\frac{s(r+h) - s(r)}{h} = \frac{(9h + 9r + 21) - (9r + 3)}{h}$$

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

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

$$= 9$$

Solution