

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

$$r(z) = 9z + 9$$

$$r(z) = 9z + 9$$

$$r(z+h) = 9(h+z) + 9$$

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

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

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

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

$$= 9$$

$$r(z) = 9z + 9$$

$$r(z+h) = 9(h+z) + 9$$

$$= 9h + 9z + 18$$

$$\frac{r(z+h) - r(z)}{h} = \frac{(9h + 9z + 18) - (9z + 9)}{h}$$

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

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

$$= 9$$

$$r(z) = 9z + 9$$

$$r(z+h) = 9(h+z) + 9$$

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

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

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

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

$$= 9$$

$$r(z) = 9z + 9$$

$$r(z+h) = 9(h+z) + 9$$

$$= 9h + 9z$$

$$\frac{r(z+h) - r(z)}{h} = \frac{(9h + 9z + 27) - (9z + 9)}{h}$$

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

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

$$= 9$$

Solution