

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

$$n(z) = 7z + 9$$

$$n(z) = 7z + 9$$

$$n(z+h) = 7(h+z) + 9$$

$$= 7h + 7z + 9$$

$$\frac{n(z+h) - n(z)}{h} = \frac{(7h + 7z + 9) - (7(z+1) + 9)}{h}$$

$$= \frac{7h}{h}$$

$$= \frac{h(7)}{h}$$

$$= 7$$

$$n(z) = 7z + 9$$

$$n(z+h) = 7(h+z) + 9$$

$$= 7h + 7z + 16$$

$$\frac{n(z+h) - n(z)}{h} = \frac{(7h + 7z + 16) - (7z + 9)}{h}$$

$$= \frac{7h}{h}$$

$$= \frac{h(7)}{h}$$

$$= 7$$

$$n(z) = 7z + 9$$

$$n(z+h) = 7(h+z) + 9$$

$$= 7h + 7z + 9$$

$$\frac{n(z+h) - n(z)}{h} = \frac{(7h + 7z + 9) - (7z + 9)}{h}$$

$$= \frac{7h}{h}$$

$$= \frac{h(7)}{h}$$

$$= 7$$

$$n(z) = 7z + 9$$

$$n(z+h) = 7(h+z) + 9$$

$$= 7h + 7z + 2$$

$$\frac{n(z+h) - n(z)}{h} = \frac{(7h + 7z + 23) - (7z + 9)}{h}$$

$$= \frac{7h}{h}$$

$$= \frac{h(7)}{h}$$

$$= 7$$

Solution