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

$m(n) = 9n + 1$

$m(n) = 9n + 1$

$m(n+h) = 9(h+n) + 1$

$= 9h + 9n + 1$

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

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

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

$= 9$

$m(n) = 9n + 1$

$m(n+h) = 9(h+n) + 1$

$= 9h + 9n + 10$

$$\frac{m(n+h)-m(n)}{h} = \frac{(9h+9n+10)-(9n+1)}{h}$$

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

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

$= 9$

$m(n) = 9n + 1$

$m(n+h) = 9(h+n) + 1$

$= 9h + 9n + 1$

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

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

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

$= 9$

$m(n) = 9n + 1$

$m(n+h) = 9(h+n) + 1$

$= 9h + 9n - 8$

$$\frac{m(n+h)-m(n)}{h} = \frac{(9h+9n+19)-(9n+1)}{h}$$

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

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

$= 9$

Solution