

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

$$n(b) = 6b + 7$$

$$n(b) = 6b + 7$$

$$n(b+h) = 6(b+h) + 7$$

$$= 6b + 6h + 7$$

$$\frac{n(b+h) - n(b)}{h} = \frac{(6b+6h+7) - (6(b+1)+7)}{h}$$

$$= \frac{6h}{h}$$

$$= \frac{h(6)}{h}$$

$$= 6$$

$$n(b) = 6b + 7$$

$$n(b+h) = 6(b+h) + 7$$

$$= 6b + 6h + 13$$

$$\frac{n(b+h) - n(b)}{h} = \frac{(6b+6h+13) - (6b+7)}{h}$$

$$= \frac{6h}{h}$$

$$= \frac{h(6)}{h}$$

$$= 6$$

$$n(b) = 6b + 7$$

$$n(b+h) = 6(b+h) + 7$$

$$= 6b + 6h + 7$$

$$\frac{n(b+h) - n(b)}{h} = \frac{(6b+6h+7) - (6b+7)}{h}$$

$$= \frac{6h}{h}$$

$$= \frac{h(6)}{h}$$

$$= 6$$

$$n(b) = 6b + 7$$

$$n(b+h) = 6(b+h) + 7$$

$$= 6b + 6h + 1$$

$$\frac{n(b+h) - n(b)}{h} = \frac{(6b+6h+19) - (6b+7)}{h}$$

$$= \frac{6h}{h}$$

$$= \frac{h(6)}{h}$$

$$= 6$$

Solution