

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

$$c(g) = 5g + 6$$

$$c(g) = 5g + 6$$

$$c(g+h) = 5(g+h) + 6$$

$$= 5g + 5h + 6$$

$$\frac{c(g+h) - c(g)}{h} = \frac{(5g+5h+6) - (5(g+1)+6)}{h}$$

$$= \frac{5h}{h}$$

$$= \frac{h(5)}{h}$$

$$= 5$$

$$c(g) = 5g + 6$$

$$c(g+h) = 5(g+h) + 6$$

$$= 5g + 5h + 11$$

$$\frac{c(g+h) - c(g)}{h} = \frac{(5g+5h+11) - (5g+6)}{h}$$

$$= \frac{5h}{h}$$

$$= \frac{h(5)}{h}$$

$$= 5$$

$$c(g) = 5g + 6$$

$$c(g+h) = 5(g+h) + 6$$

$$= 5g + 5h + 6$$

$$\frac{c(g+h) - c(g)}{h} = \frac{(5g+5h+6) - (5g+6)}{h}$$

$$= \frac{5h}{h}$$

$$= \frac{h(5)}{h}$$

$$= 5$$

$$c(g) = 5g + 6$$

$$c(g+h) = 5(g+h) + 6$$

$$= 5g + 5h + 1$$

$$\frac{c(g+h) - c(g)}{h} = \frac{(5g+5h+16) - (5g+6)}{h}$$

$$= \frac{5h}{h}$$

$$= \frac{h(5)}{h}$$

$$= 5$$

**Solution**