

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

$$b(g) = 8g + 7$$

$$b(g) = 8g + 7$$

$$b(g+h) = 8(g+h) + 7$$

$$= 8g + 8h + 7$$

$$\frac{b(g+h) - b(g)}{h} = \frac{(8g + 8h + 7) - (8(g+1) + 7)}{h}$$

$$= \frac{8h}{h}$$

$$= \frac{h(8)}{h}$$

$$= 8$$

$$b(g) = 8g + 7$$

$$b(g+h) = 8(g+h) + 7$$

$$= 8g + 8h + 15$$

$$\frac{b(g+h) - b(g)}{h} = \frac{(8g + 8h + 15) - (8g + 7)}{h}$$

$$= \frac{8h}{h}$$

$$= \frac{h(8)}{h}$$

$$= 8$$

$$b(g) = 8g + 7$$

$$b(g+h) = 8(g+h) + 7$$

$$= 8g + 8h + 7$$

$$\frac{b(g+h) - b(g)}{h} = \frac{(8g + 8h + 7) - (8g + 7)}{h}$$

$$= \frac{8h}{h}$$

$$= \frac{h(8)}{h}$$

$$= 8$$

$$b(g) = 8g + 7$$

$$b(g+h) = 8(g+h) + 7$$

$$= 8g + 8h - 1$$

$$\frac{b(g+h) - b(g)}{h} = \frac{(8g + 8h + 23) - (8g + 7)}{h}$$

$$= \frac{8h}{h}$$

$$= \frac{h(8)}{h}$$

$$= 8$$

Solution