

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

$$j(f) = 4f + 6$$

$$j(f) = 4f + 6$$

$$j(f+h) = 4(f+h) + 6$$

$$= 4f + 4h + 6$$

$$\frac{j(f+h) - j(f)}{h} = \frac{(4f+4h+6) - (4(f+1)+6)}{h}$$

$$= \frac{4h}{h}$$

$$= \frac{h(4)}{h}$$

$$= 4$$

$$j(f) = 4f + 6$$

$$j(f+h) = 4(f+h) + 6$$

$$= 4f + 4h + 10$$

$$\frac{j(f+h) - j(f)}{h} = \frac{(4f+4h+10) - (4f+6)}{h}$$

$$= \frac{4h}{h}$$

$$= \frac{h(4)}{h}$$

$$= 4$$

$$j(f) = 4f + 6$$

$$j(f+h) = 4(f+h) + 6$$

$$= 4f + 4h + 6$$

$$\frac{j(f+h) - j(f)}{h} = \frac{(4f+4h+6) - (4f+6)}{h}$$

$$= \frac{4h}{h}$$

$$= \frac{h(4)}{h}$$

$$= 4$$

$$j(f) = 4f + 6$$

$$j(f+h) = 4(f+h) + 6$$

$$= 4f + 4h + 2$$

$$\frac{j(f+h) - j(f)}{h} = \frac{(4f+4h+14) - (4f+6)}{h}$$

$$= \frac{4h}{h}$$

$$= \frac{h(4)}{h}$$

$$= 4$$

**Solution**