

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

$$j(u) = 7u + 5$$

$$j(u) = 7u + 5$$

$$j(u+h) = 7(h+u) + 5$$

$$= 7h + 7u + 5$$

$$\frac{j(u+h) - j(u)}{h} = \frac{(7h + 7u + 5) - (7(u+1) + 5)}{h}$$

$$= \frac{7h}{h}$$

$$= \frac{h(7)}{h}$$

$$= 7$$

$$j(u) = 7u + 5$$

$$j(u+h) = 7(h+u) + 5$$

$$= 7h + 7u + 12$$

$$\frac{j(u+h) - j(u)}{h} = \frac{(7h + 7u + 12) - (7u + 5)}{h}$$

$$= \frac{7h}{h}$$

$$= \frac{h(7)}{h}$$

$$= 7$$

$$j(u) = 7u + 5$$

$$j(u+h) = 7(h+u) + 5$$

$$= 7h + 7u + 5$$

$$\frac{j(u+h) - j(u)}{h} = \frac{(7h + 7u + 5) - (7u + 5)}{h}$$

$$= \frac{7h}{h}$$

$$= \frac{h(7)}{h}$$

$$= 7$$

$$j(u) = 7u + 5$$

$$j(u+h) = 7(h+u) + 5$$

$$= 7h + 7u - 2$$

$$\frac{j(u+h) - j(u)}{h} = \frac{(7h + 7u + 19) - (7u + 5)}{h}$$

$$= \frac{7h}{h}$$

$$= \frac{h(7)}{h}$$

$$= 7$$

Solution