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

$a(u) = 9u^2 + 7u + 7$

$a(u) = 9u^2 + 7u + 7$

$a(u+h) = 9(h+u)^2 + 7(h+u) + 7$

$= 9h^2 + 18hu + 7h + 9u^2 + 7u + 7$

$$\frac{a(u+h)-a(u)}{h} = \frac{\left(9h^2+18uh+7h+9u^2+7u+7\right)-\left(9(u+1)^2+7(u+1)+7\right)}{h}$$

$$= \frac{9h^2+18uh+7h}{h}$$

$$= \frac{h(9h+18u+7)}{h}$$

$= 9h + 18u + 7$

$a(u) = 9u^2 + 7u + 7$

$a(u+h) = 9(h+u)^2 + 7(h+u) + 7$

$= 9h^2 + 18hu + 25h + 9u^2 + 25u + 23$

$$\frac{a(u+h)-a(u)}{h} = \frac{\left(9h^2+18uh+25h+9u^2+25u+23\right)-\left(9u^2+7u+7\right)}{h}$$

$$= \frac{9h^2+18uh+7h}{h}$$

$$= \frac{h(9h+18u+7)}{h}$$

$= 9h + 18u + 7$

$a(u) = 9u^2 + 7u + 7$

$a(u+h) = 9(h+u)^2 + 7(h+u) + 7$

$= 9h^2 + 18hu + 7h + 9u^2 + 7u + 7$

$$\frac{a(u+h)-a(u)}{h} = \frac{\left(9h^2+18uh+7h+9u^2+7u+7\right)-\left(9u^2+7u+7\right)}{h}$$

$$= \frac{9h^2+18uh+7h}{h}$$

$$= \frac{h(9h+18u+7)}{h}$$

$= 9h + 18u + 7$

$a(u) = 9u^2 + 7u + 7$

$a(u+h) = 9(h+u)^2 + 7(h+u) + 7$

$= 9h^2 + 18hu - 11h + 9u^2 - 11u + 9$

$$\frac{a(u+h)-a(u)}{h} = \frac{\left(9h^2+18uh+43h+9u^2+43u+57\right)-\left(9u^2+7u+7\right)}{h}$$

$$= \frac{9h^2+18uh+7h}{h}$$

$$= \frac{h(9h+18(u+1)+7)}{h}$$

$= 9h + 18u + 7$

Solution