3. Which of the following are correct calculations for difference quotient of:
$k(a) = 6a + 9$

$k(a) = 6a + 9$
$k(a+h) = 6(a+h) + 9$
$= 6a + 6h + 9$
$\frac{k(a+h)-k(a)}{h} = \frac{(6a+6h+9)-(6(a+1)+9)}{h}$
$= \frac{6h}{h}$
$= \frac{h(6)}{h}$
$= 6$

$k(a) = 6a + 9$
$k(a+h) = 6(a+h) + 9$
$= 6a + 6h + 15$
$\frac{k(a+h)-k(a)}{h} = \frac{(6a+6h+15)-(6a+9)}{h}$
$= \frac{6h}{h}$
$= \frac{h(6)}{h}$
$= 6$

$k(a) = 6a + 9$
$k(a+h) = 6(a+h) + 9$
$= 6a + 6h + 9$
$\frac{k(a+h)-k(a)}{h} = \frac{(6a+6h+9)-(6a+9)}{h}$
$= \frac{6h}{h}$
$= \frac{h(6)}{h}$
$= 6$

$k(a) = 6a + 9$
$k(a+h) = 6(a+h) + 9$
$= 6a + 6h + 3$
$\frac{k(a+h)-k(a)}{h} = \frac{(6a+6h+21)-(6a+9)}{h}$
$= \frac{6h}{h}$
$= \frac{h(6)}{h}$
$= 6$

Solution