7. Which of the following are correct calculations for difference quotient of:
$g(k) = 2k + 4$

$g(k) = 2k + 4$
$g(k+h) = 2(h + k) + 4$
$= 2h + 2k + 4$
$\frac{g(k+h) - g(k)}{h} = \frac{(2h+2k+4) - (2(k+1)+4)}{h}$
$= \frac{2h}{h}$
$= \frac{h(2)}{h}$
$= 2$

$g(k) = 2k + 4$
$g(k+h) = 2(h + k) + 4$
$= 2h + 2k + 6$
$\frac{g(k+h) - g(k)}{h} = \frac{(2h+2k+6) - (2k+4)}{h}$
$= \frac{2h}{h}$
$= \frac{h(2)}{h}$
$= 2$

$g(k) = 2k + 4$
$g(k+h) = 2(h + k) + 4$
$= 2h + 2k + 4$
$\frac{g(k+h) - g(k)}{h} = \frac{(2h+2k+4) - (2k+4)}{h}$
$= \frac{2h}{h}$
$= \frac{h(2)}{h}$
$= 2$

$g(k) = 2k + 4$
$g(k+h) = 2(h + k) + 4$
$= 2h + 2k + 2$
$\frac{g(k+h) - g(k)}{h} = \frac{(2h+2k+8) - (2k+4)}{h}$
$= \frac{2h}{h}$
$= \frac{h(2)}{h}$
$= 2$

Solution