2. Which of the following are correct calculations for difference quotient of:
$k(z) = 5z + 7$

$k(z) = 5z + 7$
$k(z+h) = 5(h + z) + 7$
$= 5h + 5z + 7$
$$\frac{k(z+h) - k(z)}{h} = \frac{(5h + 5z + 7) - (5(z+1) + 7)}{h}$$
$$= \frac{5h}{h}$$
$$= \frac{h(5)}{h}$$
$$= 5$$

$k(z) = 5z + 7$
$k(z+h) = 5(h + z) + 7$
$= 5h + 5z + 12$
$$\frac{k(z+h) - k(z)}{h} = \frac{(5h + 5z + 12) - (5z + 7)}{h}$$
$$= \frac{5h}{h}$$
$$= \frac{h(5)}{h}$$
$$= 5$$

$k(z) = 5z + 7$
$k(z+h) = 5(h + z) + 7$
$= 5h + 5z + 7$
$$\frac{k(z+h) - k(z)}{h} = \frac{(5h + 5z + 7) - (5z + 7)}{h}$$
$$= \frac{5h}{h}$$
$$= \frac{h(5)}{h}$$
$$= 5$$

$k(z) = 5z + 7$
$k(z+h) = 5(h + z) + 7$
$= 5h + 5z + 2$
$$\frac{k(z+h) - k(z)}{h} = \frac{(5h + 5z + 17) - (5z + 7)}{h}$$
$$= \frac{5h}{h}$$
$$= \frac{h(5)}{h}$$
$$= 5$$

Solution