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

$j(z) = 3z + 4$

$j(z) = 3z + 4$

$j(z+h) = 3(h + z) + 4$

$= 3h + 3z + 4$

$\frac{j(z+h) - j(z)}{h} = \frac{(3h+3z+4) - (3(z+1)+4)}{h}$

$= \frac{3h}{h}$

$= \frac{h(3)}{h}$

$= 3$

$j(z) = 3z + 4$

$j(z+h) = 3(h + z) + 4$

$= 3h + 3z + 7$

$\frac{j(z+h) - j(z)}{h} = \frac{(3h+3z+7) - (3z+4)}{h}$

$= \frac{3h}{h}$

$= \frac{h(3)}{h}$

$= 3$

$j(z) = 3z + 4$

$j(z+h) = 3(h + z) + 4$

$= 3h + 3z + 4$

$\frac{j(z+h) - j(z)}{h} = \frac{(3h+3z+4) - (3z+4)}{h}$

$= \frac{3h}{h}$

$= \frac{h(3)}{h}$

$= 3$

$j(z) = 3z + 4$

$j(z+h) = 3(h + z) + 4$

$= 3h + 3z + 1$

$\frac{j(z+h) - j(z)}{h} = \frac{(3h+3z+10) - (3z+4)}{h}$

$= \frac{3h}{h}$

$= \frac{h(3)}{h}$

$= 3$

Solution