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

$z(u) = 3u + 2$

$z(u) = 3u + 2$

$z(u+h) = 3(h + u) + 2$

$= 3h + 3u + 2$

$\frac{z(u+h) - z(u)}{h} = \frac{(3h+3u+2) - (3(u+1)+2)}{h}$

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

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

$= 3$

$z(u) = 3u + 2$

$z(u+h) = 3(h + u) + 2$

$= 3h + 3u + 5$

$\frac{z(u+h) - z(u)}{h} = \frac{(3h+3u+5) - (3u+2)}{h}$

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

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

$= 3$

$z(u) = 3u + 2$

$z(u+h) = 3(h + u) + 2$

$= 3h + 3u + 2$

$\frac{z(u+h) - z(u)}{h} = \frac{(3h+3u+2) - (3u+2)}{h}$

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

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

$= 3$

$z(u) = 3u + 2$

$z(u+h) = 3(h + u) + 2$

$= 3h + 3u - 1$

$\frac{z(u+h) - z(u)}{h} = \frac{(3h+3u+8) - (3u+2)}{h}$

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

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

$= 3$

Solution