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

$m(x) = 3x + 1$

$m(x) = 3x + 1$

$m(x+h) = 3(h + x) + 1$

$= 3h + 3x + 1$

$\frac{m(x+h) - m(x)}{h} = \frac{(3h+3x+1) - (3(x+1)+1)}{h}$

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

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

$= 3$

$m(x) = 3x + 1$

$m(x+h) = 3(h + x) + 1$

$= 3h + 3x + 4$

$\frac{m(x+h) - m(x)}{h} = \frac{(3h+3x+4) - (3x+1)}{h}$

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

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

$= 3$

$m(x) = 3x + 1$

$m(x+h) = 3(h + x) + 1$

$= 3h + 3x + 1$

$\frac{m(x+h) - m(x)}{h} = \frac{(3h+3x+1) - (3x+1)}{h}$

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

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

$= 3$

$m(x) = 3x + 1$

$m(x+h) = 3(h + x) + 1$

$= 3h + 3x - 2$

$\frac{m(x+h) - m(x)}{h} = \frac{(3h+3x+7) - (3x+1)}{h}$

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

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

$= 3$

Solution