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

$m(b) = 3b^2 + 9b + 7$

$m(b) = 3b^2 + 9b + 7$

$m(b+h) = 3(b+h)^2 + 9(b+h) + 7$

$= 3b^2 + 6bh + 9b + 3h^2 + 9h + 7$

$$\frac{m(b+h)-m(b)}{h} = \frac{\left(3b^2+6hb+9b+3h^2+9h+7\right)-\left(3(b+1)^2+9(b+1)+7\right)}{h}$$

$$= \frac{3h^2+6bh+9h}{h}$$

$$= \frac{h(6b+3h+9)}{h}$$

$= 6b + 3h + 9$

$m(b) = 3b^2 + 9b + 7$

$m(b+h) = 3(b+h)^2 + 9(b+h) + 7$

$= 3b^2 + 6bh + 15b + 3h^2 + 15h + 19$

$$\frac{m(b+h)-m(b)}{h} = \frac{\left(3b^2+6hb+15b+3h^2+15h+19\right)-\left(3b^2+9b+7\right)}{h}$$

$$= \frac{3h^2+6bh+9h}{h}$$

$$= \frac{h(6b+3h+9)}{h}$$

$= 6b + 3h + 9$

$m(b) = 3b^2 + 9b + 7$

$m(b+h) = 3(b+h)^2 + 9(b+h) + 7$

$= 3b^2 + 6bh + 9b + 3h^2 + 9h + 7$

$$\frac{m(b+h)-m(b)}{h} = \frac{\left(3b^2+6hb+9b+3h^2+9h+7\right)-\left(3b^2+9b+7\right)}{h}$$

$$= \frac{3h^2+6bh+9h}{h}$$

$$= \frac{h(6b+3h+9)}{h}$$

$= 6b + 3h + 9$

$m(b) = 3b^2 + 9b + 7$

$m(b+h) = 3(b+h)^2 + 9(b+h) + 7$

$= 3b^2 + 6bh + 3b + 3h^2 + 3h + 1$

$$\frac{m(b+h)-m(b)}{h} = \frac{\left(3b^2+6hb+21b+3h^2+21h+37\right)-\left(3b^2+9b+7\right)}{h}$$

$$= \frac{3h^2+6bh+9h}{h}$$

$$= \frac{h(6(b+1)+3h+9)}{h}$$

$= 6b + 3h + 9$

Solution