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

$v(m) = m^2 + 5m + 8$

$v(m) = m^2 + 5m + 8$

$v(m+h) = (h+m)^2 + 5(h+m) + 8$

$= h^2 + 2hm + 5h + m^2 + 5m + 8$

$$\frac{v(m+h) - v(m)}{h} = \frac{\left(h^2+2mh+5h+m^2+5m+8\right) - \left((m+1)^2+5(m+1)+8\right)}{h}$$

$$= \frac{h^2+2mh+5h}{h}$$

$$= \frac{h(h+2m+5)}{h}$$

$= h + 2m + 5$

$v(m) = m^2 + 5m + 8$

$v(m+h) = (h+m)^2 + 5(h+m) + 8$

$= h^2 + 2hm + 7h + m^2 + 7m + 14$

$$\frac{v(m+h) - v(m)}{h} = \frac{\left(h^2+2mh+7h+m^2+7m+14\right) - \left(m^2+5m+8\right)}{h}$$

$$= \frac{h^2+2mh+5h}{h}$$

$$= \frac{h(h+2m+5)}{h}$$

$= h + 2m + 5$

$v(m) = m^2 + 5m + 8$

$v(m+h) = (h+m)^2 + 5(h+m) + 8$

$= h^2 + 2hm + 5h + m^2 + 5m + 8$

$$\frac{v(m+h) - v(m)}{h} = \frac{\left(h^2+2mh+5h+m^2+5m+8\right) - \left(m^2+5m+8\right)}{h}$$

$$= \frac{h^2+2mh+5h}{h}$$

$$= \frac{h(h+2m+5)}{h}$$

$= h + 2m + 5$

$v(m) = m^2 + 5m + 8$

$v(m+h) = (h+m)^2 + 5(h+m) + 8$

$= h^2 + 2hm + 3h + m^2 + 3m + 4$

$$\frac{v(m+h) - v(m)}{h} = \frac{\left(h^2+2mh+9h+m^2+9m+22\right) - \left(m^2+5m+8\right)}{h}$$

$$= \frac{h^2+2mh+5h}{h}$$

$$= \frac{h(h+2(m+1)+5)}{h}$$

$= h + 2m + 5$

Solution