

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

$$p(y) = y + 1$$

$$p(y) = y + 1$$

$$p(y+h) = h + y + 1$$

$$= h + y + 1$$

$$\frac{p(y+h) - p(y)}{h} = \frac{(h+y+1) - (y+1)}{h}$$

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

$$= \frac{h(1)}{h}$$

$$= 1$$

$$p(y) = y + 1$$

$$p(y+h) = h + y + 1$$

$$= h + y + 2$$

$$\frac{p(y+h) - p(y)}{h} = \frac{(h+y+2) - (y+1)}{h}$$

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

$$= \frac{h(1)}{h}$$

$$= 1$$

$$p(y) = y + 1$$

$$p(y+h) = h + y + 1$$

$$= h + y + 1$$

$$\frac{p(y+h) - p(y)}{h} = \frac{(h+y+1) - (y+1)}{h}$$

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

$$= \frac{h(1)}{h}$$

$$= 1$$

$$p(y) = y + 1$$

$$p(y+h) = h + y + 1$$

$$= h + y$$

$$\frac{p(y+h) - p(y)}{h} = \frac{(h+y+3) - (y+1)}{h}$$

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

$$= \frac{h(1)}{h}$$

$$= 1$$

Solution