

$$\frac{(X+h)^2 - x^2}{h} =$$

$$a) = \frac{x^2 + 2xh + h^2 - x^2}{h} = \frac{2xh + h^2}{h} =$$

$$= \frac{h(2x+h)}{h} = 2x+h$$

$$b) = \frac{(\boxed{x+h} + \textcircled{x})(\boxed{x+h} - \textcircled{x})}{h} =$$

$$= \frac{(2x+h) - h}{h} = 2x+h$$