$$|F(X) - L| < E$$

 $|-5X - 11 + 1| < E$
 $|-5X - 10| < E$
 $|-5(X + 2)| < E$
 $|-5| |X + 2| < E$

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for E70 we choose
$$S = \frac{\varepsilon}{5}$$

there exsist & = & therefor by defination of al

Jim (-5x-11) = -1

$$\varphi(x) = \frac{4 - x^2}{x^2 + 1 + x^2}$$

at X=2, -2

 $\lim_{X \to 2^{+}} \frac{4 - x^{2}}{(x-2)^{2}} = \frac{4 - (2^{+})^{2}}{(2^{+} - 2)^{2}} = \frac{-}{+}(\infty) = -\infty$

r Vertical at X= 2

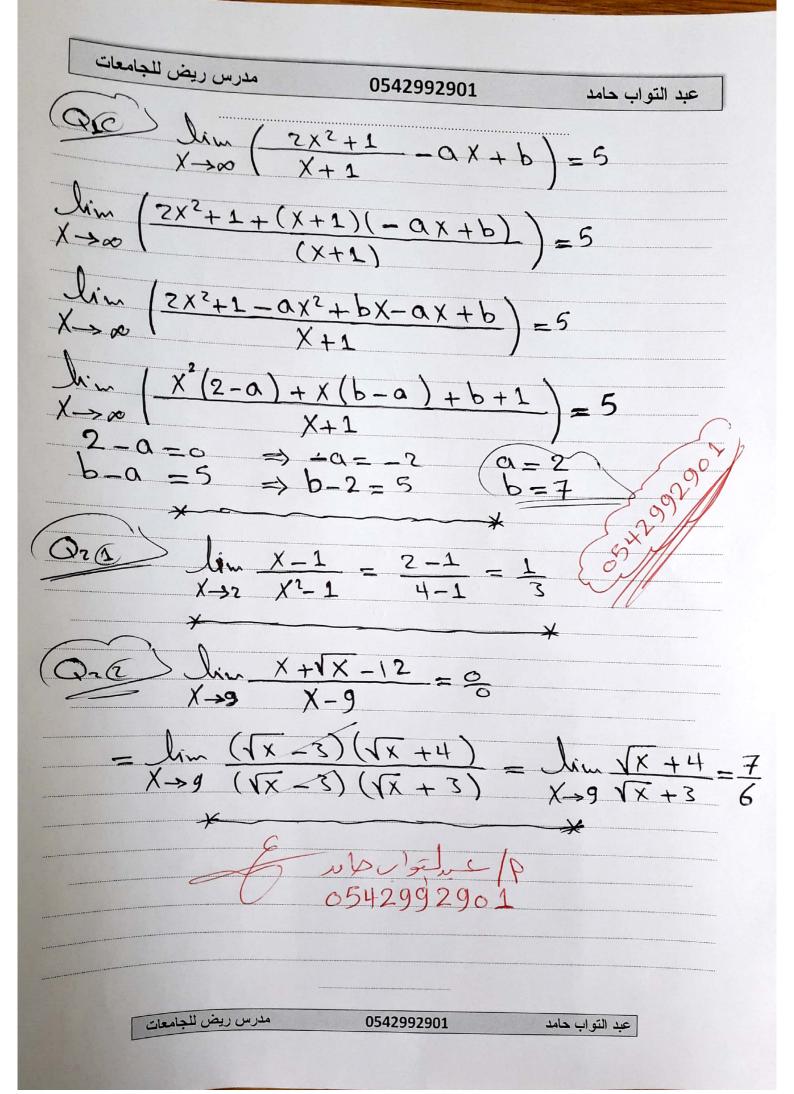
$$\lim_{X \to 2^{-}} \frac{4 - x^{2}}{(x - z)^{2}} = \frac{4 - (z^{-})^{2}}{(z^{-} - z)^{2}} = \frac{+}{+} (\infty) = \infty$$

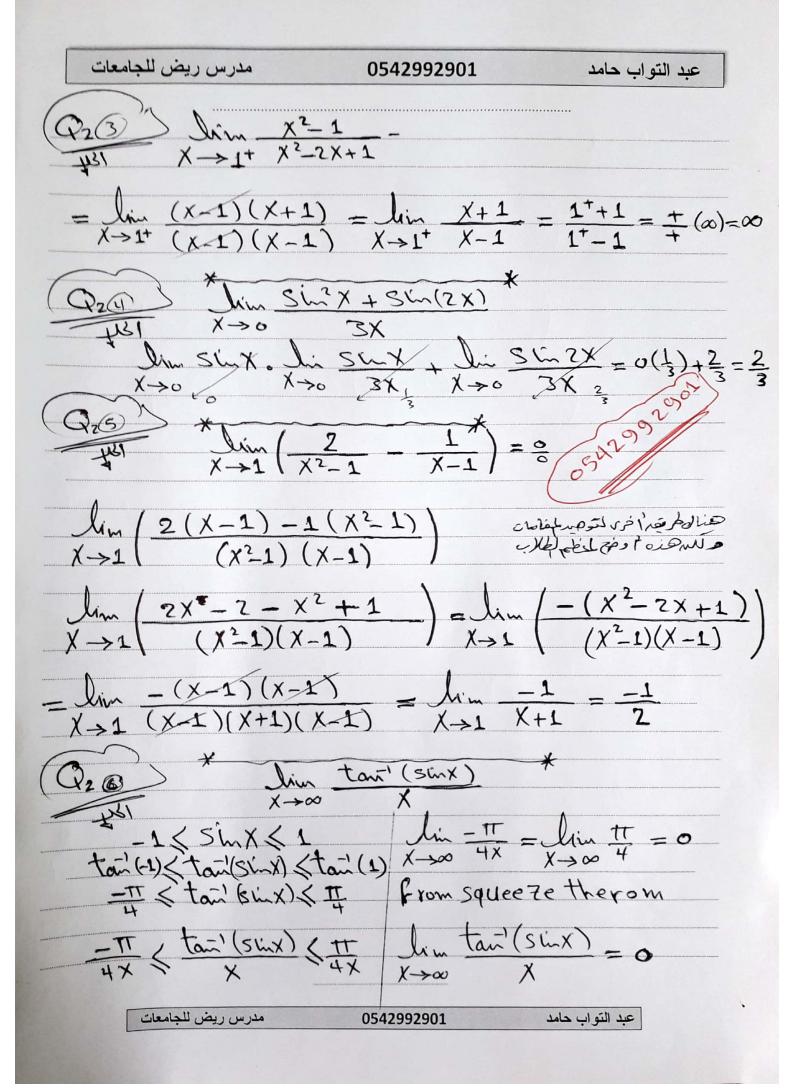
$$\lim_{X \to -2^{+}} \frac{4 - x^{2}}{(x+2)^{2}} = \frac{4 - (-2^{+})^{2}}{(2 + (-2^{+})^{2})^{2}} = \frac{+(\infty)}{+} = \infty$$

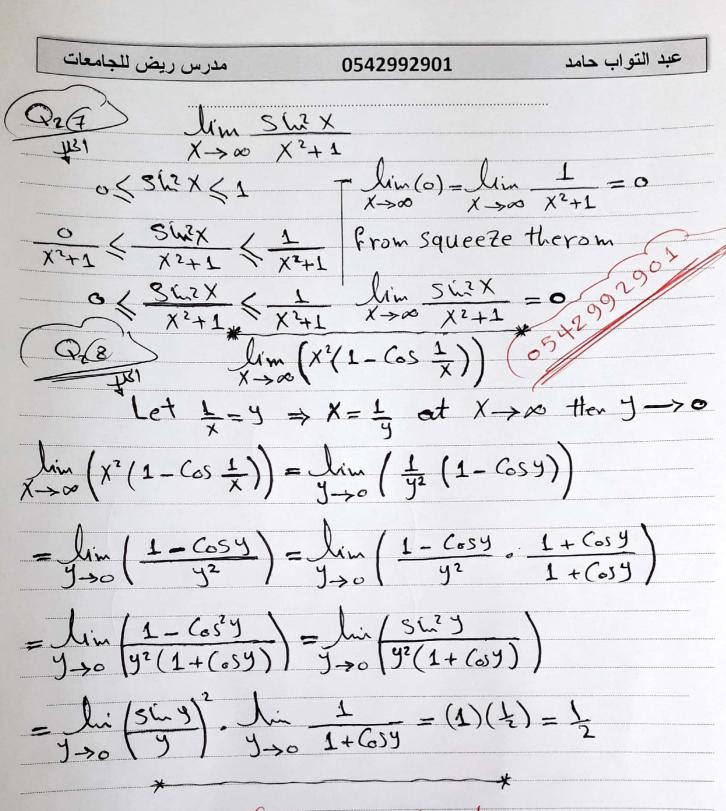
 $\lim_{X \to -\overline{z}^{-}(X+2)^{2}} = \frac{4 - (-\overline{z}^{-})^{2}}{(7 + (-\overline{z}^{-}))^{2}} = \frac{-(\infty)}{+(\infty)} = -\infty$

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مدرس ريض للجامعات

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