

Sind equation of tan. line to the graph of

$$f(x) = \sqrt{\chi} - 1 \quad \text{at} \quad \chi = 4. \qquad \text{Find } f(4) = \sqrt{4} - 1$$

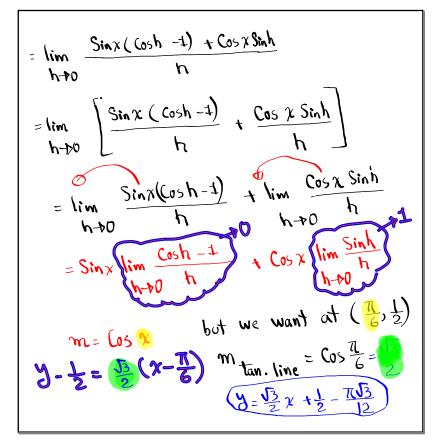
$$= 1$$

$$(0, -1) \quad (1, 0) \quad \forall \quad (4, 1) \quad \forall \quad (4, -1) \quad (4, -1) \quad (5, -1$$

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Sind equation of the tangent line to the
graph of
$$S(x) = \frac{1}{\chi - 2}$$
 at the point where
 $\chi = 0.$ Domain
 $(-00, 2) U(2, 0)$
 $J - J = m(x - x_i)$ V.A. at $\chi = 2$
 $g - \frac{1}{2} = (x - 0)$
 $M = \lim_{h \to 0} \frac{S(x+h) - S(x)}{h} = \lim_{h \to 0} \frac{1}{(x+h-2) - \frac{1}{(x-2)}}$
 $M = \lim_{h \to 0} \frac{1}{h} = \lim_{h \to 0} \frac{1}{h} = \lim_{h \to 0} \frac{1}{h(x+h-2)(x-2)}$
 $= \lim_{h \to 0} \frac{x - 2}{h(x+h-2)(x-2)} = \lim_{h \to 0} \frac{-h}{h(x+h-2)(x-2)}$
 $= \lim_{h \to 0} \frac{-1}{h(x+h-2)(x-2)} = \lim_{h \to 0} \frac{-1}{h(x+h-2)(x-2)}$
 $= \lim_{h \to 0} \frac{-1}{(x+h-2)(x-2)} = \frac{-1}{(x+0-2)(x-2)} = \frac{-1}{(x+0-2)(x-2)}$
at $(0, -\frac{1}{2})$ $J - J = m(x - x_i)$
 $m = \frac{-1}{(0-2)^2} = \frac{-1}{4}$ $J - \frac{1}{2} = \frac{-1}{4}(x - 0)$
 $J = \frac{-1}{4}x - \frac{1}{2}$

Sind the equation of the tangent line to the
graph of
$$S(x) = Sin x$$
 at the point with
 $2 = \frac{\pi}{6}$.
 $3 =$



Class QZ 4
for
$$\varepsilon > 0$$
, find $\varepsilon > 0$ such that
 $\lim_{x \to 2} (x^2 + 3x - 2) = 8.$
 $x + 2$