2. $\frac{41}{8}$ ⓒ $\sin^2 x = a^2 \sin^2 x \left( \cos 2x + 2g^2 x \right)^2 \ / \sqrt{\phantom{x}}$

$\pm \sin x = a \sin x \left( 4g^2 x - 1 \right) \ / : \sin x \neq 0$

$\pm 1 = a \left( 4g^2 x - 1 \right)$

$\frac{\pm 1}{a} + 1 = 4g^2 x$

$g^2 x = \frac{a \pm 1}{4a} \longrightarrow \ gx = \pm \sqrt{\frac{a \pm 1}{4a}}$

ⓟ

$-1 \leq \cos x \leq 1$

$-1 \leq \pm \sqrt{\frac{a \pm 1}{4a}} \leq 1$

$0 \leq \frac{a \pm 1}{4a} \leq 1$

$a \pm 1 \leq 4a$

$-\frac{1}{3} \leq a \quad , \quad \frac{1}{3} \leq a$

$\fbox{$a \geq \frac{1}{3}$}$ plurar $\leftarrow$  $\fbox{$a \geq \frac{1}{3}$}$ $\leftarrow$  $a \geq \frac{1}{3}$ ppl $a \geq -1$  $+ \ \sqrt{\phantom{}}$

$a \geq -\frac{1}{3}$ ppl $\fbox{$a \geq 1$}$  $-$

e h3/

$a \pm 1 \geq 0$

$a \geq 1$ ili $a \geq -$