7. Solve the inequalities $9 < 2 + 7|x|$
express your solution sets using interval notation.

$(-1,1)$

$[-1,1]$

$(-\infty,-1)\cup(1,+\infty)$

$(-\infty,-1]\cup[1,+\infty)$

Solution

Intervals

Solve:

$9 < 7|x| + 2$

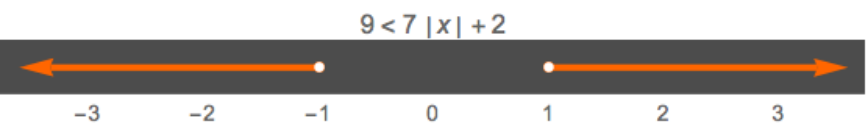
$7 < 7|x|$

$7 < 7x$ or $7x < -7$

$7 - (0) < 7x$ or $7x < -7 - (0)$

$7 < 7x$ or $7x < -7$

Divide each side by 7



$x < -1$ or $x > 1$