

Q2. Find the shortest distance from the point $(3, 1)$ to the line $3x + y + 2 = 0$.

$3x + y + 2 = 0$, $P(3, 1)$ P.O.I.
 L_1 & L_2

$y = -3x - 2$

L_1 : slope, $m = -3$

L_2 : $m_2 = \frac{1}{3}$, $P(3, 1)$

L_2 : $y = \frac{1}{3}x + b$

$1 = \frac{1}{3}(3) + b$

$1 = 1 + b$

$0 = b$

L_2 : $y = \frac{1}{3}x$

$y = -3x - 2$

$y = \frac{1}{3}x$

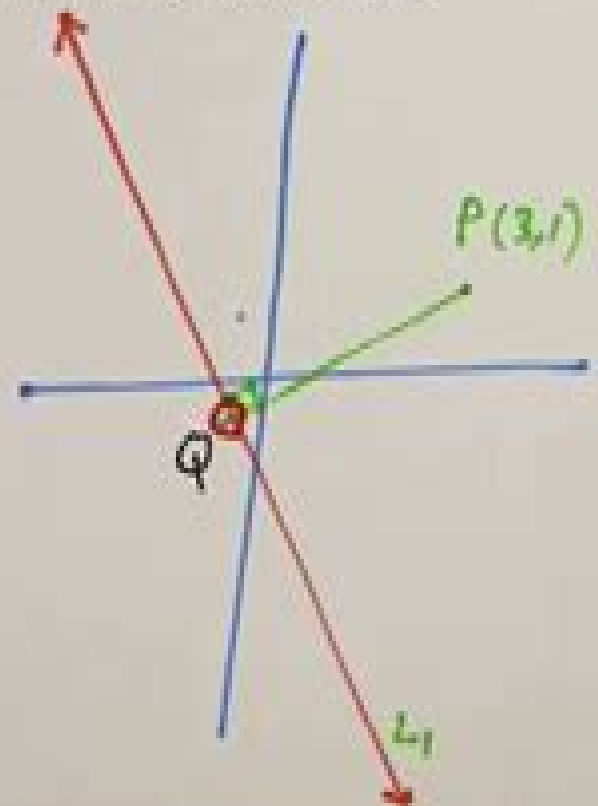
$\frac{1}{3}x = -3x - 2$

$x = -9x - 6$

$x + 9x = -6$

$10x = -6$

$x =$



Analytical Math Test Questions Answers

Murray Shukyn, Dale E. Shuttleworth



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