Solve the system of equations algebraically and geometrically

$2x + y = 8$

$3x - y = 2$

where do they cross (intercept)

$y = -2x + 8$

$y = 3x - 2$

$5x = 10$

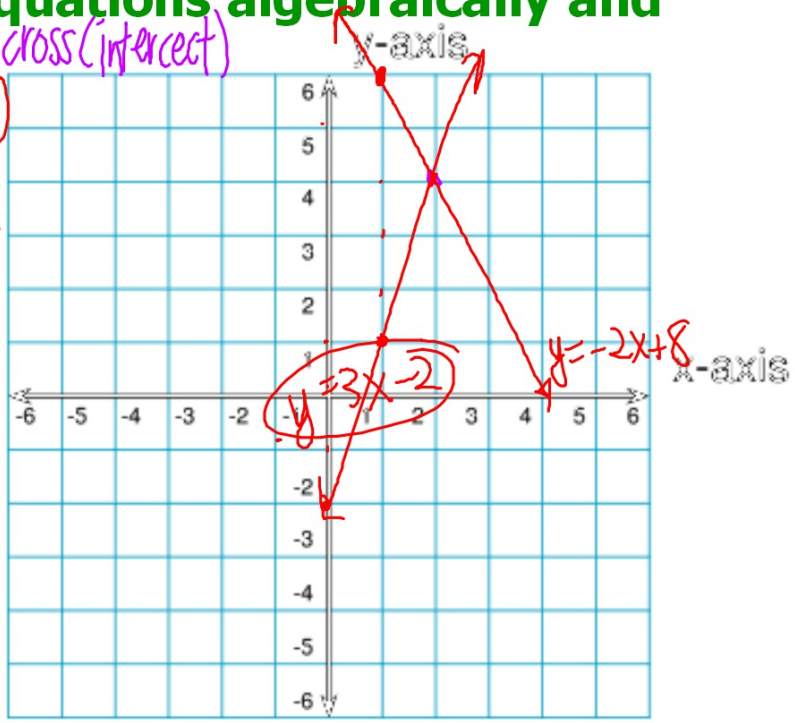
$x = 2$

$(2, 4)$

$2(2) + y = 8$

$4 + y = 8$

$y = 4$



Answer

Solve the system of equations algebraically and geometrically

x - 6y = -3

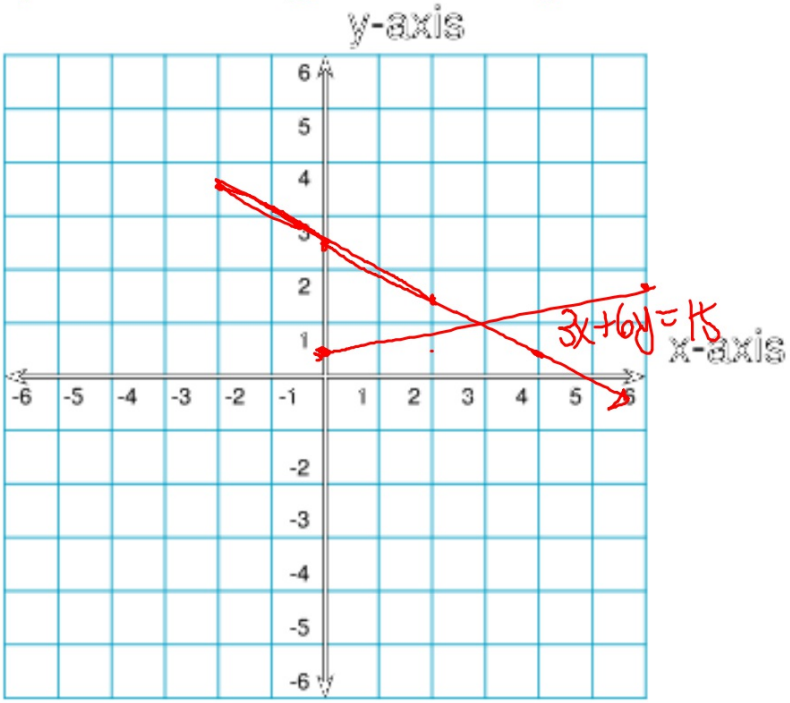
3x + 6y = 15

$\frac{6y}{6} = \frac{-3x}{6} + \frac{15}{6}$

$y = -\frac{1}{2}x + 2.5$

$\frac{-6y}{-6} = \frac{-x}{-6} - \frac{3}{-6}$

$y = \frac{1}{6}x + \frac{1}{2}$



Answer