

Los puse todos en una sola hoja

$(A) = A(x_1, y_1) B(x_2, y_2) \quad (B) = C(-2, 7) D(2, 3)$

$m = \frac{-2 - 4}{-1 - 5} = \frac{-6}{-6} = 1$ $m = \frac{3 - 7}{2 - (-2)} = \frac{-4}{4} = -1$

$y - 4 = 1(x - 5)$ $y - 7 = -1(x - 2)$
 $y - 4 = 1x - 5$ $y - 7 = -1x - 2$
 ~~$y - 4 = 1x - 5 + 4$~~ $y - 7 = -1x - 2 + 7$
 $y = 1x - 1$ $y = -1x + 5$

$(2009, 145000) \quad (2015, 75000)$
 $x_1 \quad y_1 \quad x_2 \quad y_2$

$m = \frac{75000 - 145000}{2015 - 2009} = \frac{-70000}{6} = -11,666$

$y - 145000 = -11,666(x - 2009)$
 $y - 145000 = -11,666x + 23,436,994$
 $y = -11,666x + 23,436,994 + 145000$
 $y = -11,666x + 23,581,994$

$A(2, 450) \quad B(8, 1500)$

$m = \frac{1500 - 450}{8 - 2} = \frac{1050}{6} = 175$

$y - 450 = 175(x - 2)$ $y = 175x + 100$
 $y - 450 = 175x - 350$ $y = 175(25) + 100$
 $y = 175x - 350 + 450$ $y = 4,375 + 100$
 $y = 4,475$