

UDS

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GEOMETRIA ANALITICA

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$$\textcircled{A} = A(3,4) \quad B = (-2,7) \quad D(2,3)$$

$$M = \frac{4-2}{3-(-2)} = \frac{2}{5} = 1$$

$$M = \frac{3-7}{2-(-2)} = \frac{-4}{4} = -1$$

$$y-4 = \frac{2}{5}(x-3)$$

$$y-7 = -1(x-2)$$

$$y-4 = \frac{2}{5}x - \frac{6}{5}$$

$$y-7 = -x + 2$$

$$y = \frac{2}{5}x - \frac{6}{5} + 4$$

$$y = -x + 2 + 7$$

$$y = \frac{2}{5}x + \frac{14}{5}$$

$$y = -x + 9$$

$$\begin{matrix} (2009, 145000) & (2015, 75,000) \\ x_1 & x_2 \end{matrix} \quad \begin{matrix} (2015, 75,000) & (2019, 70,000) \\ x_2 & x_2 \end{matrix}$$

$$M = \frac{75000 - 145000}{2015 - 2019} = \frac{-70000}{-4} = 17,500$$

$$y - 145000 = 17,500(x - 2009)$$

$$y - 145000 = 17,500x - 35,375,000$$

$$y = 17,500x - 35,375,000 + 145,000$$

$$y = 17,500x - 35,230,000$$

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

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

$$y - 450 = 175(x - 2)$$

$$y = 175x + 100$$

$$y - 450 = 175x - 350$$

$$y = 175(2) + 100$$

$$y = 175x - 350 + 450$$

$$y = 350 + 100$$

$$y = 450$$

