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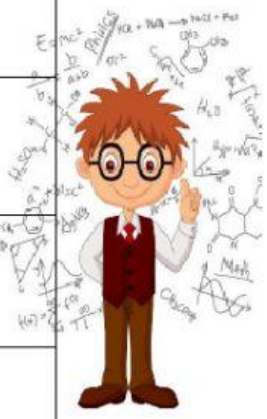
EXERCÍCIOS PONTO MÉDIO

1-Determine o valor do ponto médio dos seguintes exercícios:

PUNTOS	$x = \frac{x_1 + x_2}{2}$	$y = \frac{y_1 + y_2}{2}$	PUNTO MEDIO
(x_1, y_1) (x_2, y_2) $A(3,1)$ y $B(4,13)$	$x = \frac{(3)+(4)}{2} = \frac{(7)}{2}$	$y = \frac{(1)+(13)}{2} = \frac{(14)}{2}$	$(\frac{7}{2}, 7)$
$A(2,5)$ y $B(10,7)$	$x = \frac{(\ )+(\ )}{2} = \frac{(\ )}{2}$	$y = \frac{(\ )+(\ )}{2} = \frac{(\ )}{2}$	(,)
$E(-1,8)$ y $D(-4,-3)$	$x = \frac{(\ )+(\ )}{2} = \frac{(\ )}{2}$	$y = \frac{(\ )+(\ )}{2} = \frac{(\ )}{2}$	(,)
$P\left(\frac{3}{2}, 5\right)$ y $Q\left(\frac{5}{7}, -9\right)$	$x = \frac{(\ )+(\ )}{2} = \frac{(\ )}{2}$	$y = \frac{(\ )+(\ )}{2} = \frac{(\ )}{2}$	(,)



2- Determine o valor do extremo que falta dos seguintes exercícios:

PUNTOS	$x = \frac{x_1 + x_2}{2}$	$y = \frac{y_1 + y_2}{2}$	Extremo
$A(6,-1)$ y $PM(4,7)$	$(4) = \frac{(6) + x}{2}$ $2(4) = (6) + x$ $(8) - (6) = x$ $x = (2)$	$(7) = \frac{(-1) + y}{2}$ $2(7) = (-1) + y$ $(14) - (-1) = y$ $y = (15)$	(2 , 15)
$F(3,4)$ y $D(2,1)$	$(\ ) = \frac{(\ ) + x}{2}$ $2(\ ) = (\ ) + x$ $(\ ) - (\ ) = x$ $x = (\ )$	$(\ ) = \frac{(\ ) + y}{2}$ $2(\ ) = (\ ) + y$ $(\ ) - (\ ) = y$ $y = (\ )$	(,)
$G(-10,-3)$ y $W(5,-9)$	$(\ ) = \frac{(\ ) + x}{2}$ $2(\ ) = (\ ) + x$ $(\ ) - (\ ) = x$ $x = (\ )$	$(\ ) = \frac{(\ ) + y}{2}$ $2(\ ) = (\ ) + y$ $(\ ) - (\ ) = y$ $y = (\ )$	(,)
$P\left(\frac{1}{2}, -\frac{4}{5}\right)$ y $Q\left(\frac{3}{2}, -\frac{3}{5}\right)$	$(\ ) = \frac{(\ ) + x}{2}$ $2(\ ) = (\ ) + x$ $(\ ) - (\ ) = x$ $x = (\ )$	$(\ ) = \frac{(\ ) + y}{2}$ $2(\ ) = (\ ) + y$ $(\ ) - (\ ) = y$ $y = (\ )$	(,)