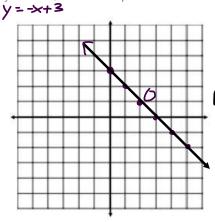
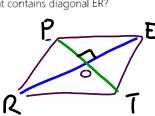
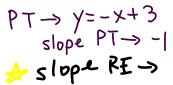
Unit 10 Lesson 6: Additional Coordinate Plane Rhombus Questions...!

1) The diagonals of rhombus PETR intersect at (2,1). If the equation of the line that contains diagonal PT is y = -x + 3, what is the equation of a line that contains diagonal ER?

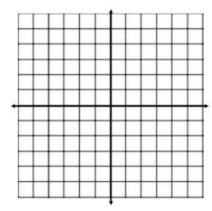






E PT \rightarrow y=-x+3slope PT \rightarrow -1 A slope RE \rightarrow 1 Point slope form $y-y_1=m(x-x_1)$ y-1=1(x-2) y-1=x-2 y=1=x-2

- 2) Parallelogram ABCD has coordinates A(0,7) and C(2,1). Which statement would d
- 1) The midpoint of AC is (1,4).
- 2) The length of BD is $\sqrt{40}$.
- 3) The slope of BD is 1/3.
- 4) The slope of AB is 1/3.
- 3) In parallelogram MATH, the coordinates of the endpoints of the diagonal MT are M (0, II) and T (4, 6). Which of the following equations contains diagonal AH and would prove MATH is a rhombus?



- 1) $y = -\frac{1}{2}x 2$ 3) $y = -\frac{1}{2}x + 3$
- 2) y = 2x + 2 4) y = -2x + 6