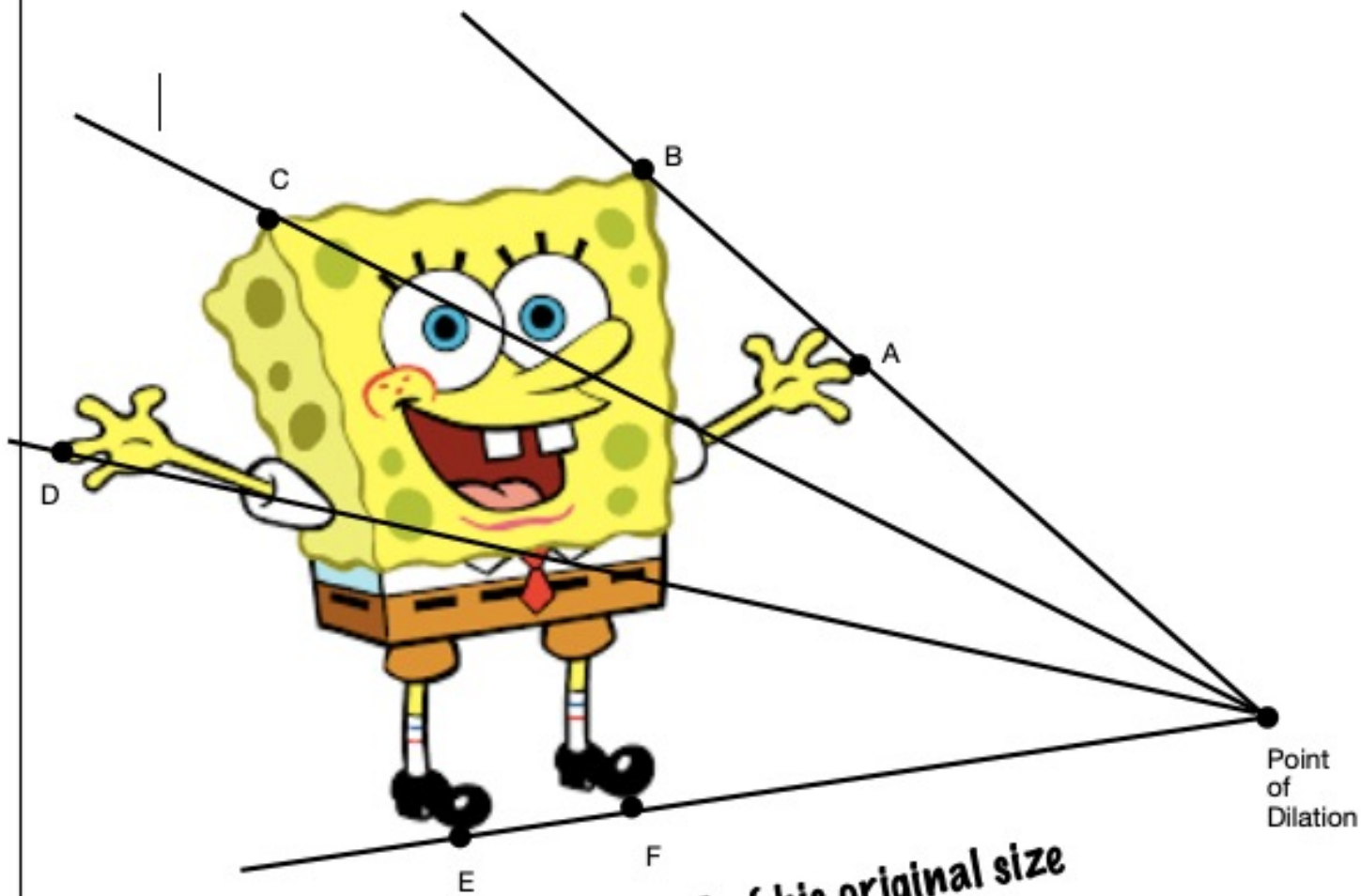


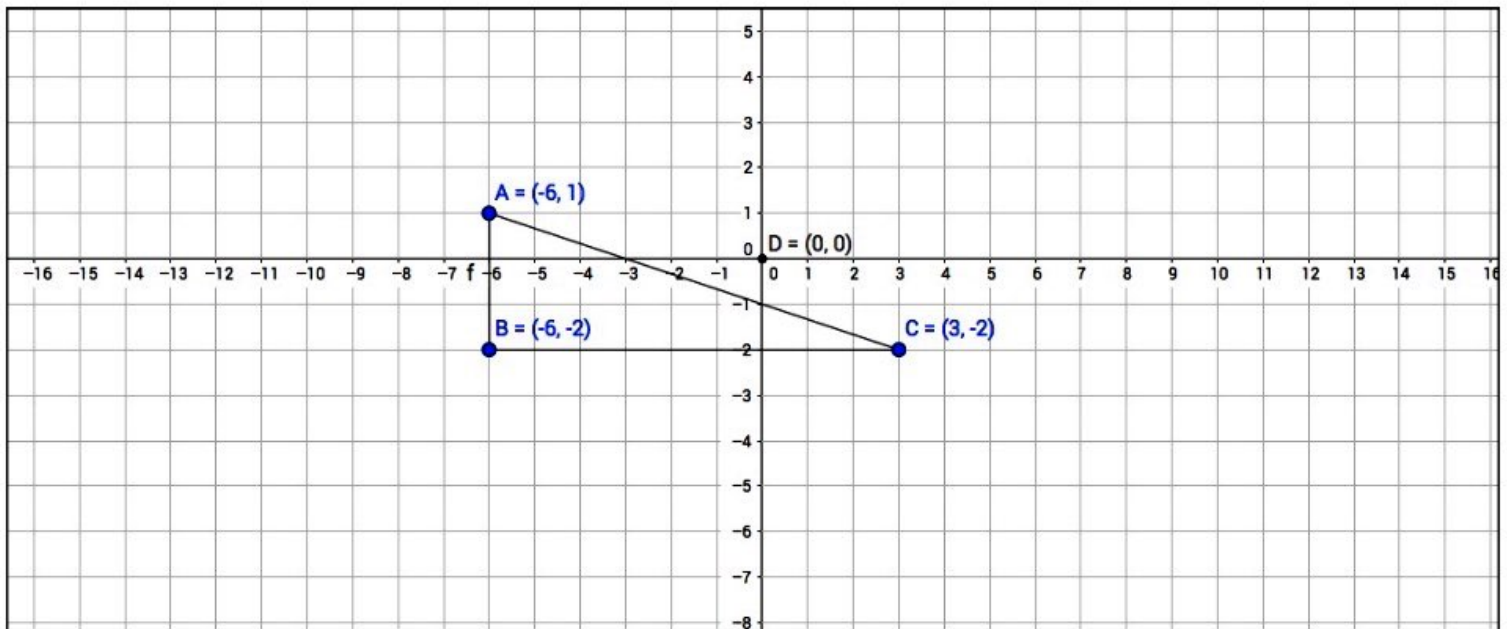
Enlarge Partrick by a scale factor of 3.5

Point of Dilation



Reduce SpongeBob to .25 of his original size

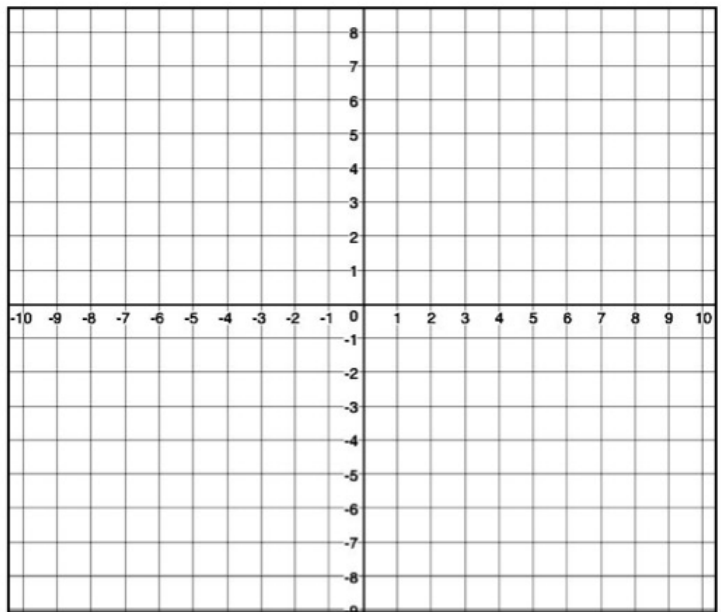
Dilate the Triangle ABC 150% from Point D. Label all vertices accordingly.



Given the following points:

$$Q = (-2, -2) \quad R = (-3, 0) \quad S = (0, 2) \quad T = (3, -1)$$

- a) Graph $QRST$ at the right.
- b) Find the coordinates of the images of these points under a dilation with scale factor 3 from the origin
- $Q' =$ _____
- $R' =$ _____
- $S' =$ _____
- $T' =$ _____



- c) Graph $Q'R'S'T'$ at the right.
- d) Use the distance formula to find:
- $QR =$ _____
- $Q'R' =$ _____
- e) How are QR and $Q'R'$ related?