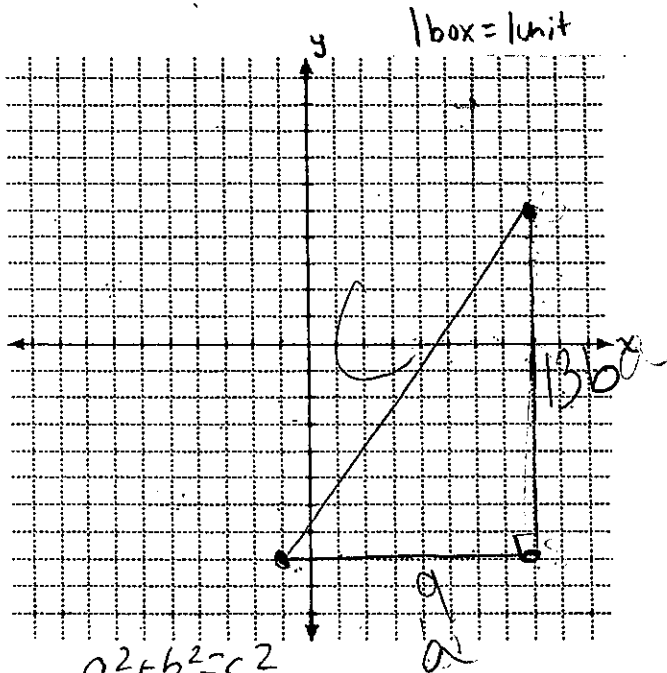


**\* Homework \***

Find the distance between each pair of points. Round your answer to the nearest tenth when necessary.

1) (8, 5), (-1, -8)



$$a^2 + b^2 = c^2$$

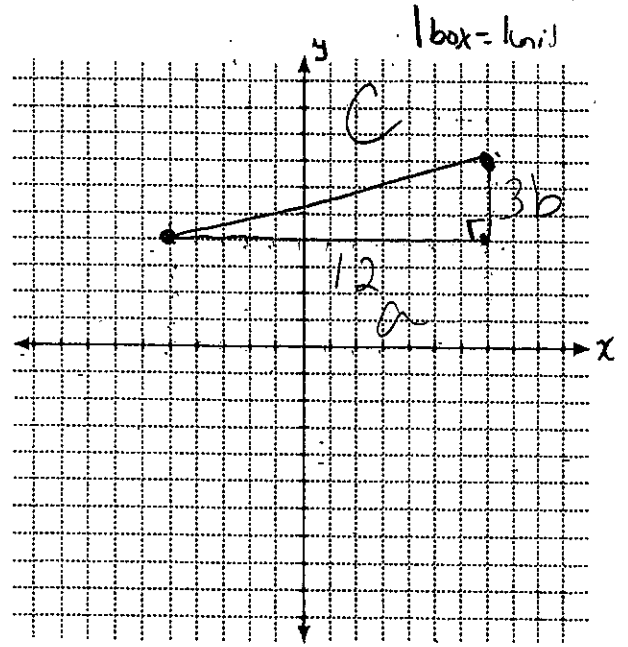
$$9^2 + 13^2 = c^2$$

$$81 + 169 = c^2$$

$$\sqrt{250} = c$$

$$c = 15.8$$

2) (-5, 4), (7, 7)



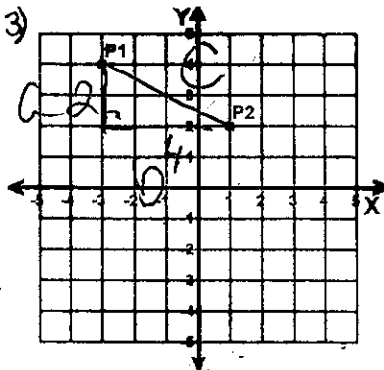
$$a^2 + b^2 = c^2$$

$$12^2 + 3^2 = c^2$$

$$144 + 9 = c^2$$

$$\sqrt{153} = c$$

$$c = 12.4$$



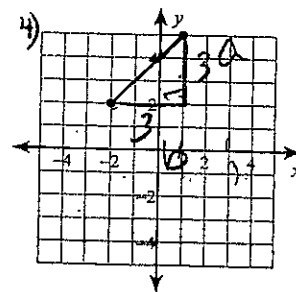
$$a^2 + b^2 = c^2$$

$$2^2 + 4^2 = c^2$$

$$4 + 16 = c^2$$

$$\sqrt{20} = c$$

$$c = 4.5$$



$$a^2 + b^2 = c^2$$

$$3^2 + 3^2 = c^2$$

$$9 + 9 = c^2$$

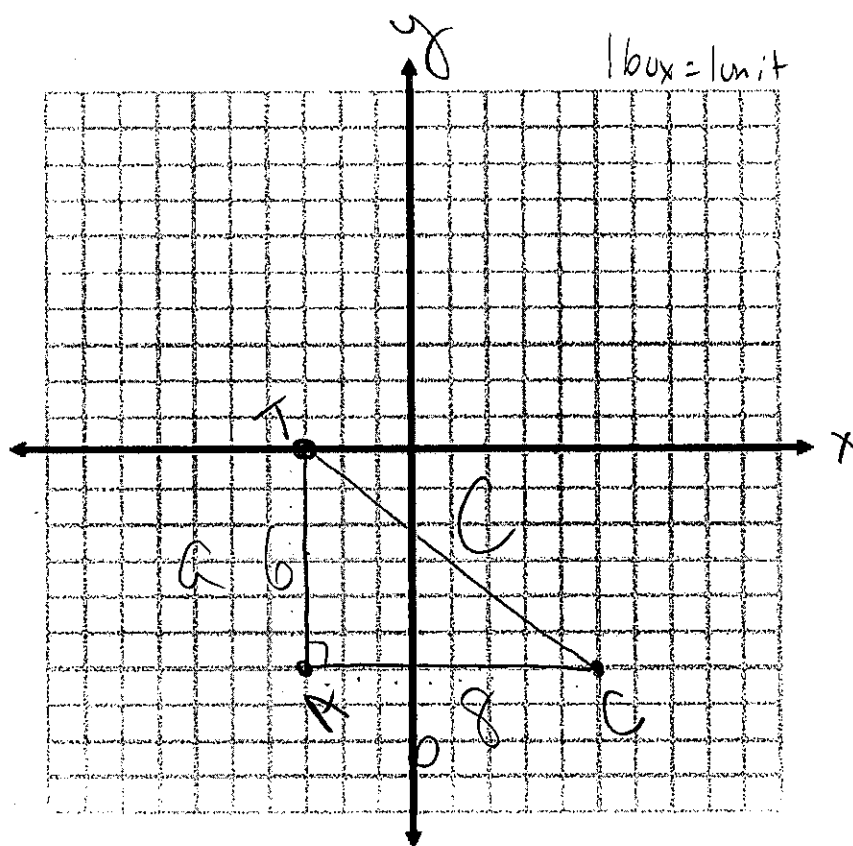
$$\sqrt{18} = c$$

$$c = 4.2$$

5) a) Plot the points below and connect them to form right triangle CAT.

C(5,-6)  
A(-3,-6)  
T(-3,0)

b) Find the length of the hypotenuse  $\overline{TC}$ . Round your answer to the nearest tenth  
(Show work)



$$a^2 + b^2 = c^2$$
$$6^2 + 8^2 = c^2$$
$$36 + 64 = c^2$$

$$100 = c^2$$
$$c = 10$$

$$\overline{TC} = 10.0$$