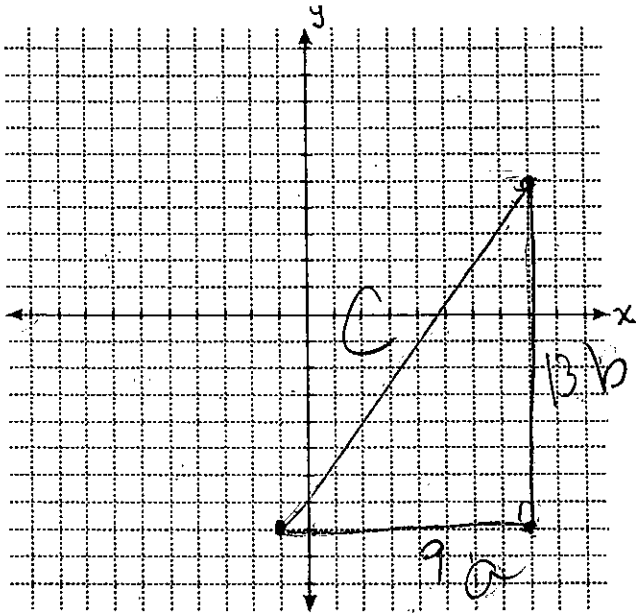


Name Key  
Date \_\_\_\_\_

### \* Homework \*

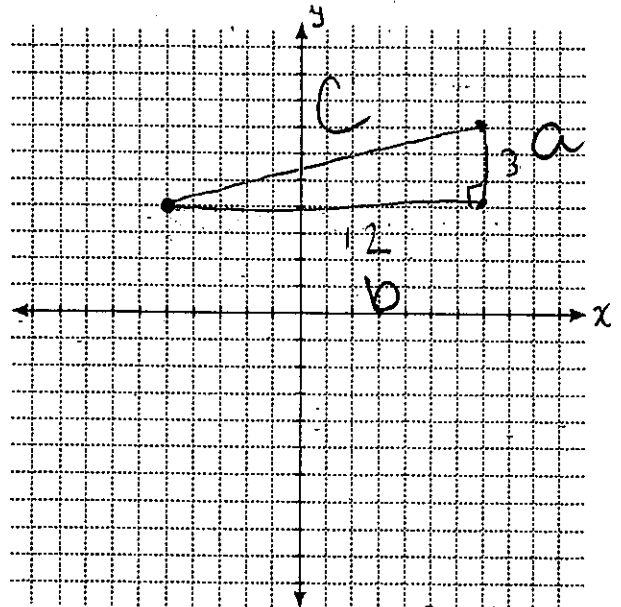
Find the distance between each pair of points. Round your answer to the nearest tenth when necessary.

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

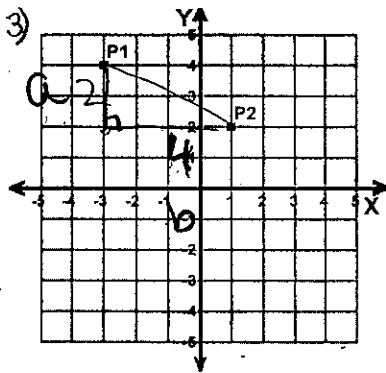


$$\begin{aligned} a^2 + b^2 &= c^2 \\ 9^2 + 13^2 &= c^2 \\ 81 + 169 &= c^2 \\ \sqrt{250} &= c^2 \\ \boxed{c = 15.8} \end{aligned}$$

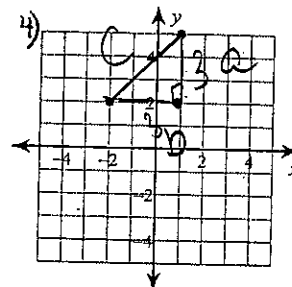
2) (-5, 4), (7, 7)



$$\begin{aligned} a^2 + b^2 &= c^2 \\ 3^2 + 12^2 &= c^2 \\ 9 + 144 &= c^2 \\ \sqrt{153} &= c^2 \\ \boxed{c = 12.4} \end{aligned}$$



$$\begin{aligned} a^2 + b^2 &= c^2 \\ 2^2 + 4^2 &= c^2 \\ 4 + 16 &= c^2 \\ \sqrt{20} &= c^2 \\ \boxed{c = 4.5} \end{aligned}$$



$$\begin{aligned} a^2 + b^2 &= c^2 \\ 3^2 + 3^2 &= c^2 \\ 9 + 9 &= c^2 \\ \sqrt{18} &= c^2 \\ \boxed{c = 4.2} \end{aligned}$$

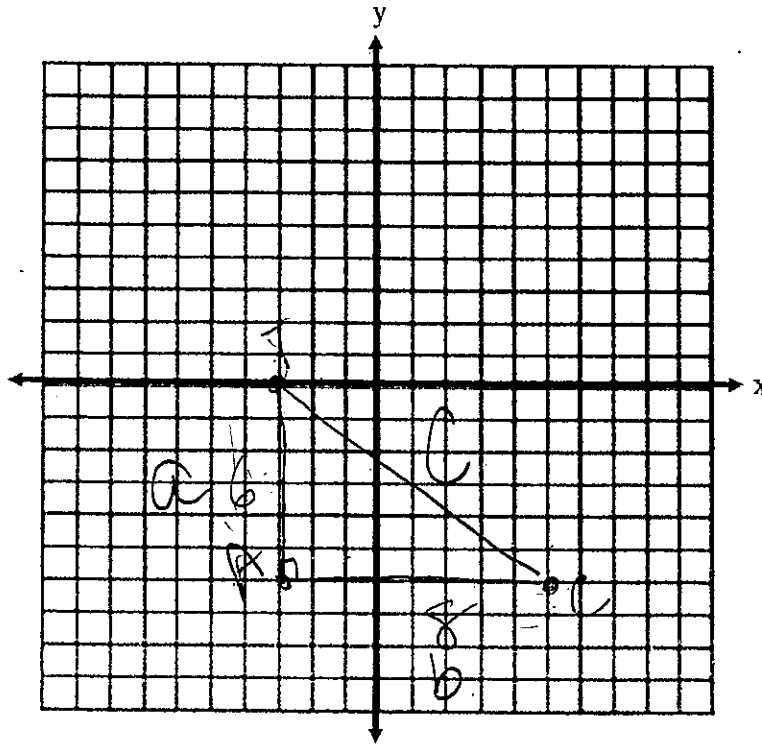
5) a) Plot the points below and connect them to form right triangle CAT.

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)



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

$$6^2 + 8^2 = c^2$$

$$36 + 64 = c^2$$

$$\sqrt{100} = c$$

$$c = 10$$

$$\overline{TC} = 10$$