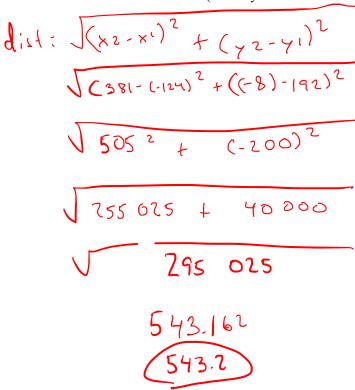
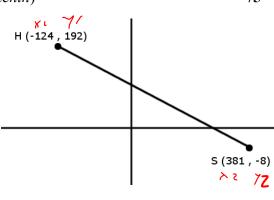
1. Mikey runs from his home, H (-124, 192) to school, S (381, -8).

How far is Mike's run?

(round your answer to the nearest tenth)

/5



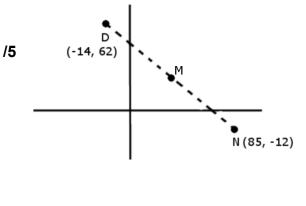


Answer: Mike's run convers a distance of 543.2 meters

2. What is the midpoint, M, found exactly between points

D (-14, 62) and N (85, -12)?

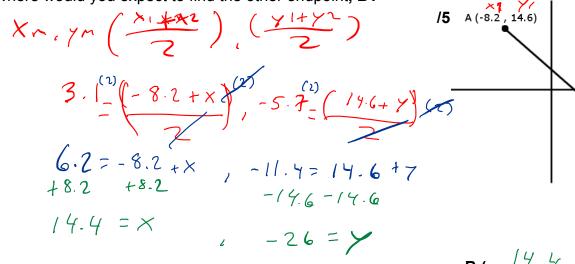
$$\times n$$
, γn $\left(\frac{x_{1}+x_{2}}{2}\right)$, $\left(\frac{y_{1}+y_{2}}{2}\right)$
 $\left(\frac{-19+85}{2}\right)$, $\left(\frac{c_{1}+c_{1}}{2}\right)$
 $\left(\frac{71}{2}\right)$, $\left(\frac{50}{2}\right)$
 35.5 , 25



3. A straight line is marked at the ends and at the middle.

Given an endpoint at $\bf A$ (-8.2, 14.6) and a midpoint at $\bf M$ (3.1, -5.7),

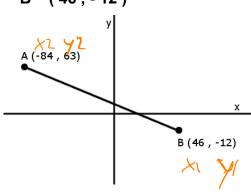
where would you expect to find the other endpoint, B?



B(/4. 4, -26)

4. What are the coordinates of a point, D, that divides line BA into a ratio of 2:3, starting from (2, 6, 3, 2, 5, -3, 6)

B?



$$xp = 464 \frac{2}{5} (634) - 46)_{1} - 124 \frac{2}{3} (63-612)$$

$$46 + \frac{2}{5} (-130) - 124 \frac{2}{5} (75)$$

$$46 + (-52) - 12430$$

$$-6 / 8$$

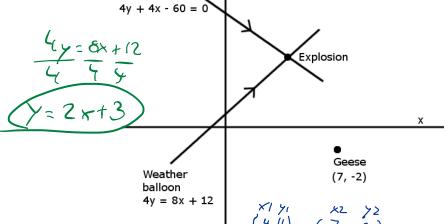
5. A **UFO** is flying along on a path described by the rule: 4y + 4x - 60 = 0A weather balloon filled with explosive gas is floating along a path described by: 4y = 8x + 12

When the two objects collide, everything within a distance of 15 km is vaporized. At that moment, a flock of **geese** is flying at coordinates (7, -2).

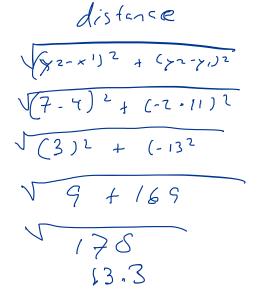
Do the geese avoid the blast or fall out of the sky?

4y + 4x-60=0 -4x +60 -4x+60

y=-1x+15



/5



Explosion E (4 , //)

Distance between the E and the geese // 13.34

Do the geese survive or not? // 10.00