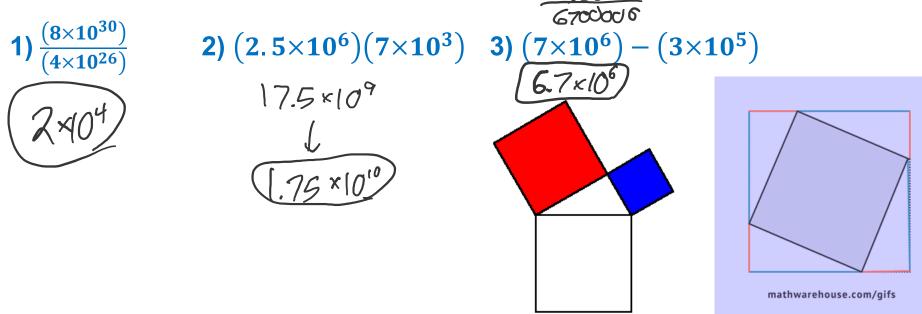
Warmup 3/(# of years it takes for a leap year to happen) + 6 Created by Hanan J.

Get a calculator but DO NOT use it for this warmup!!! Also get a whiteboard, marker, eraser

Please find your warmup sheet from LAST WEEK. We only did Monday. Today, we will continue with Tuesday!

Calculate all without a calculator. Write all answers in scientific notation.



If you did not have your "TV" worksheet, but you have it today...

Please turn it in right now!

Honorable Mentions: 3/2

• Bryan N: $(1)^{(1)^{(1)^{(1)^{(1)}}} \times 2}$

- Anja K: $1^0 + 1$
- Cayden L: $(4! \div 3) \div 4$
- Hanan J: (# of days so far in 2020) 60
- Johnathan S: # of times Obi-Wan Kenobi has said "Hello there" in all Star Wars movies

Honorable Mentions: 3/3

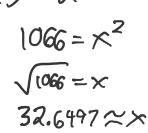
- Saoirse G: $\left(\left((3)^5\right)^6\right)^{21} \times 0 + 3$
- Kara S: (0, 3) without the comma or parentheses
- Ania R: $(((3+3) \div 3) + 4) \div 3) + 1$
- Josephine M: 7 months away from Mr. Lischwe's birthday

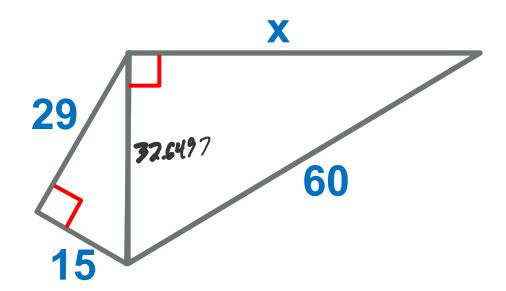
Honorable Mentions: 3/4

- Byran N: The number of bathroom passes you get
- Hanan J: # of years it takes for a leap year to happen
- Reily G: Fraction equal to 9/12
- Leilani M: |-2 + (-2)|

ON YOUR WHITEBOARD:

1. Find x. Show your work, even what you type into the calculator!!! $[5^{7}+29^{2}=x^{2}]$





$$32.6497^{2} + x^{2} = 60^{2}$$

$$1066 + x^{2} = 3600$$

$$x^{2} = 2534$$

$$x \approx 50.3$$

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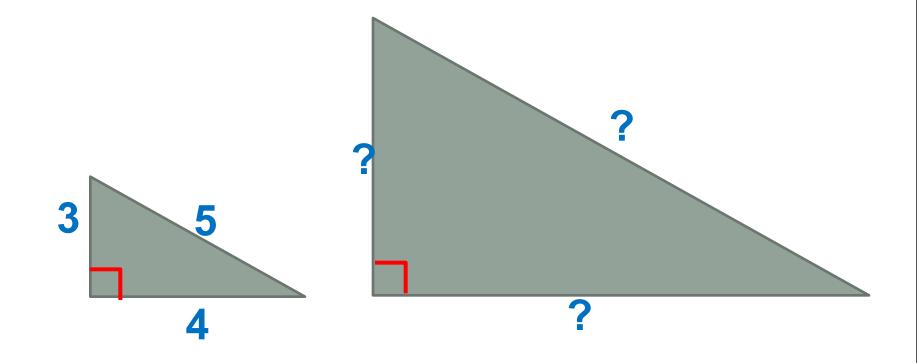
- p. 1 Exponent Basics (1.2)
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- p. 10 Transformations (6.1 6.3)
- p. 11 Rotations (Handout)
- p. 12 Reverse Transformations (Guided)
- p. 13 Pythagorean Theorem

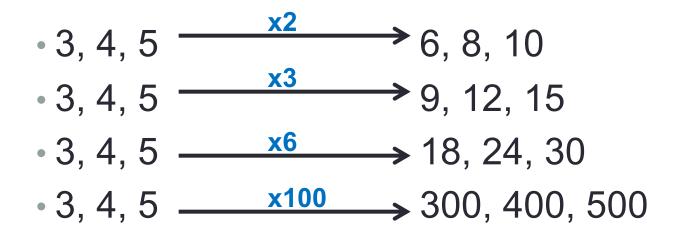
Common Pythagorean Triples

- •3, 4, 5
- 5, 12, 13
- •8, 15, 17
- •7, 24, 25
- 9, 40, 41
- MEMORIZE THESE!!! (It will pay off!)

If 3, 4, 5 works...

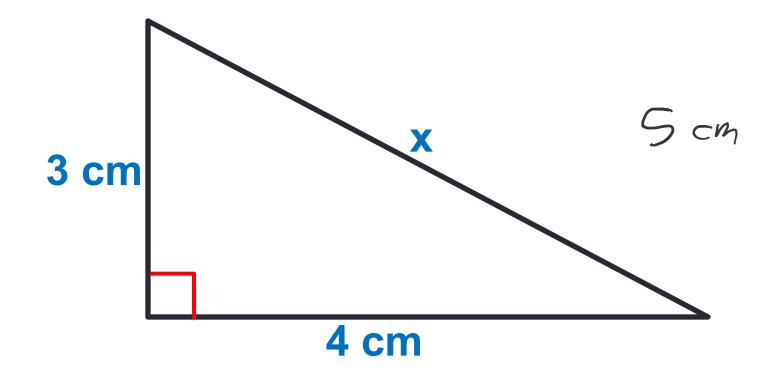
 What can you do with the numbers to create a similar triangle? (Different size but same angles)

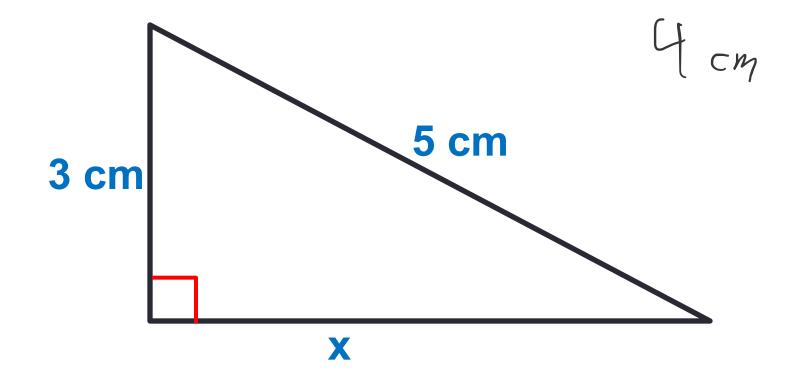


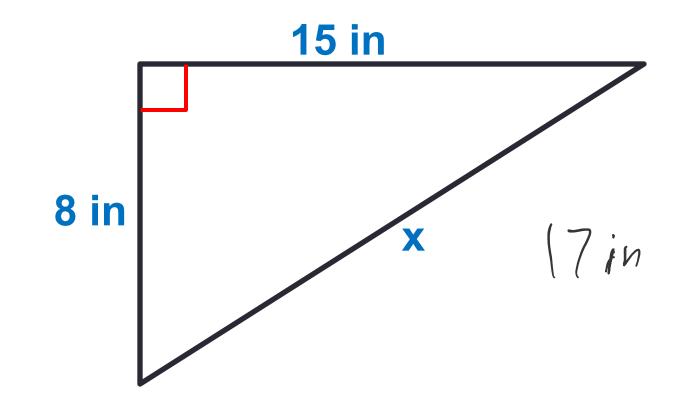


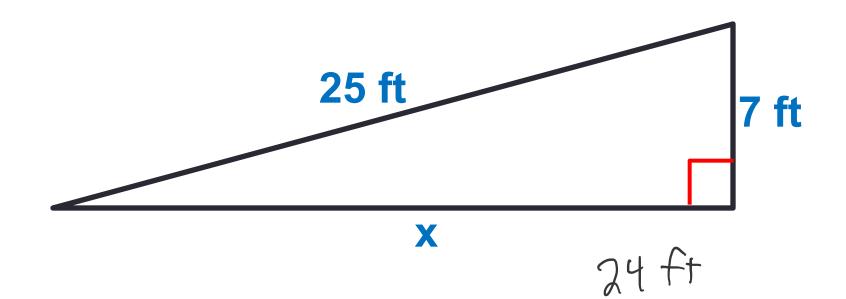
Common Pythagorean Triples

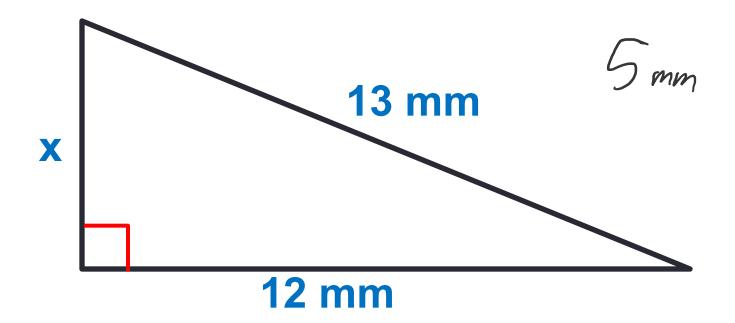
- 3, 4, 5
- 5, 12, 13
- 8, 15, 17
- •7, 24, 25
- 9, 40, 41
- + Any multiple of these!!!
 For example: (6, 8, 10) or (9, 12, 15) or (50, 120, 130)

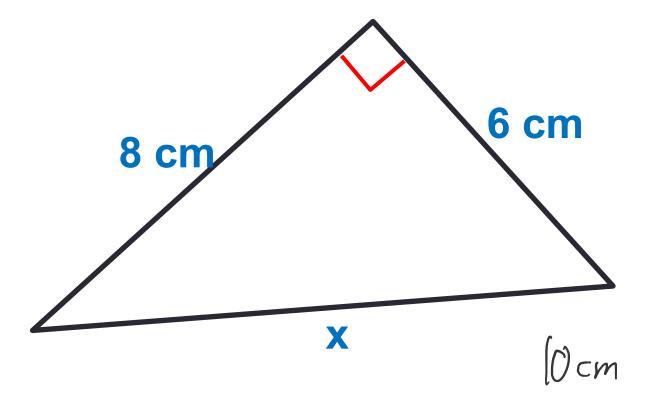


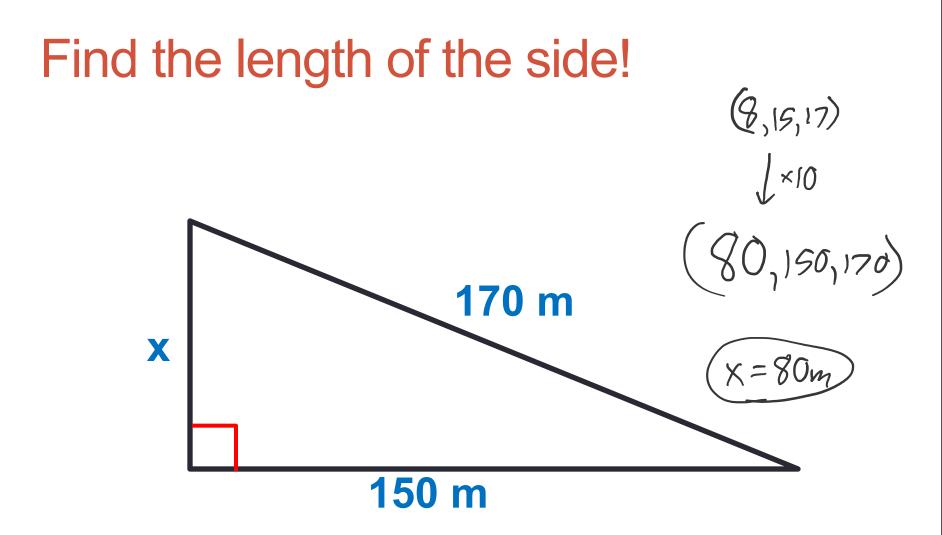


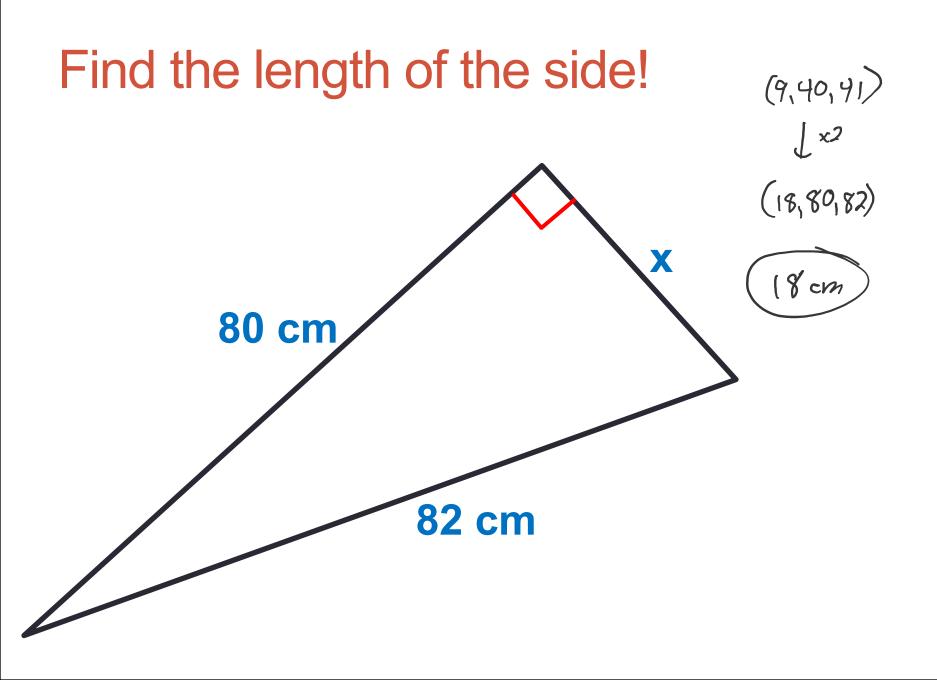


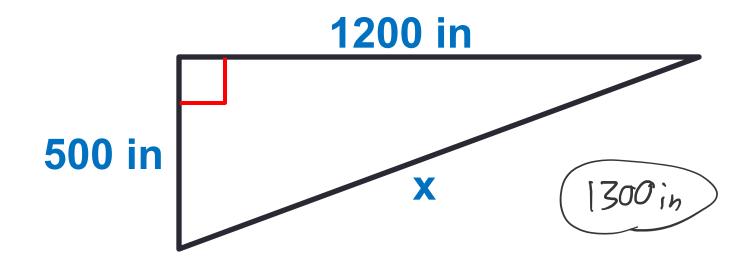


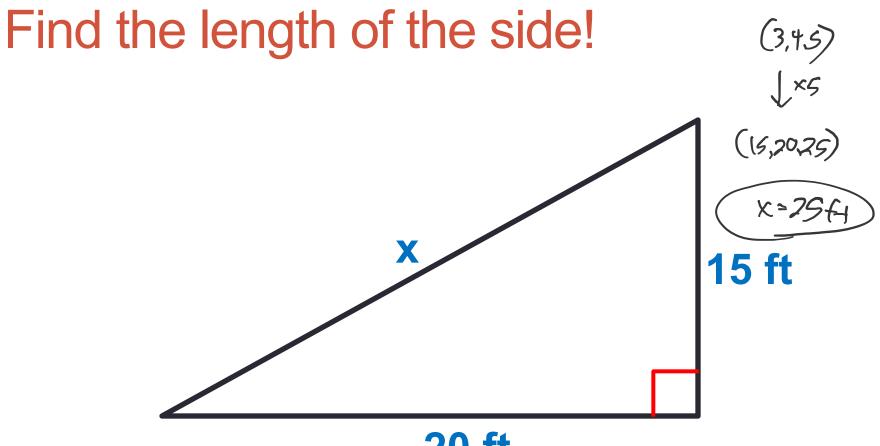




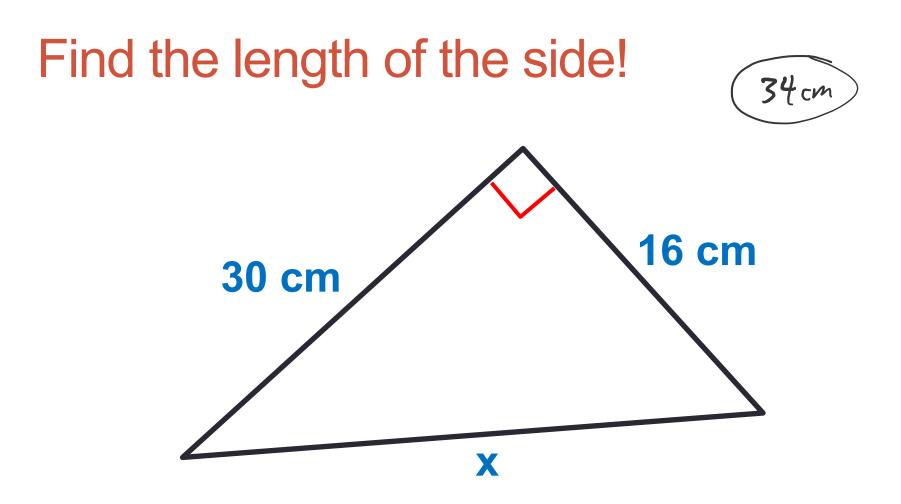


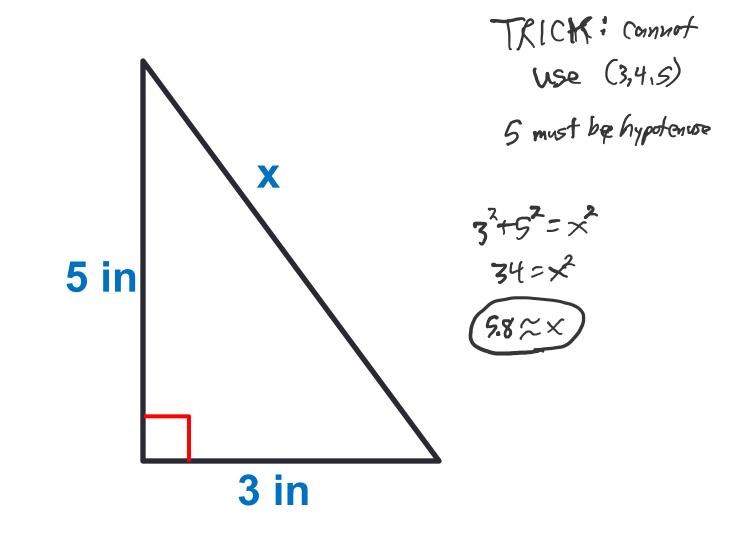


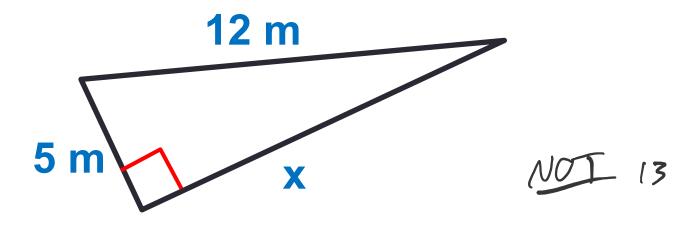




20 ft

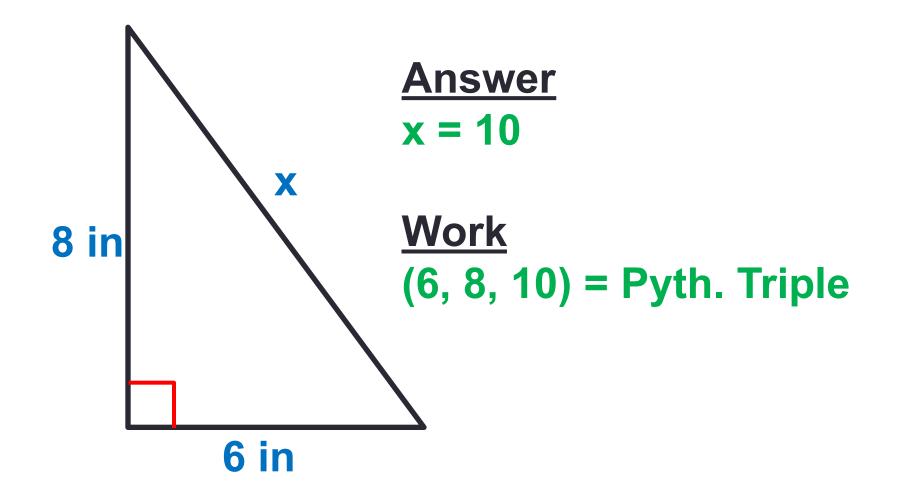






How do I show work?

 If you have some of these Pythagorean Triples memorized, you can use this knowledge in place of working out the math. However you **MUST** say "Pythagorean Triple" or "Pyth. Triple" or something like that so that I know your thought process. So you could write...



QUESTION....

 How many miles is it DIRECTLY from Nashville to Memphis? (As the crow flies)



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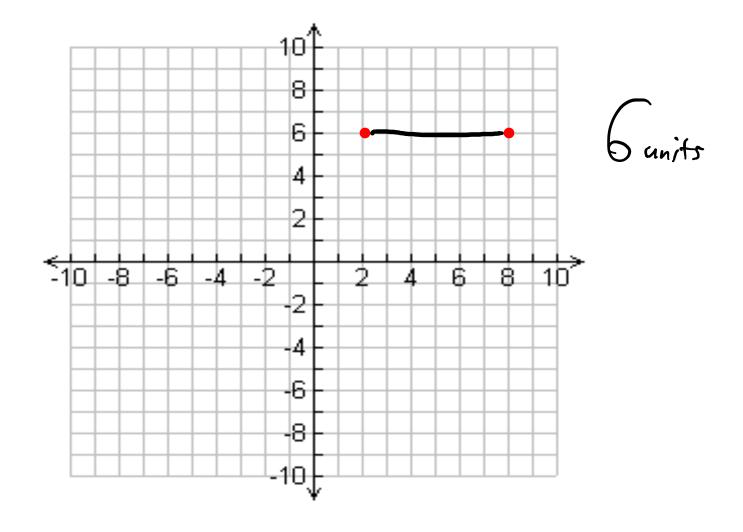
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- p. 13 Pythagorean Theorem
- p. 14 Distance on the Coordinate Plane (Guided)

Distance on the Coordinate Plane ¹³

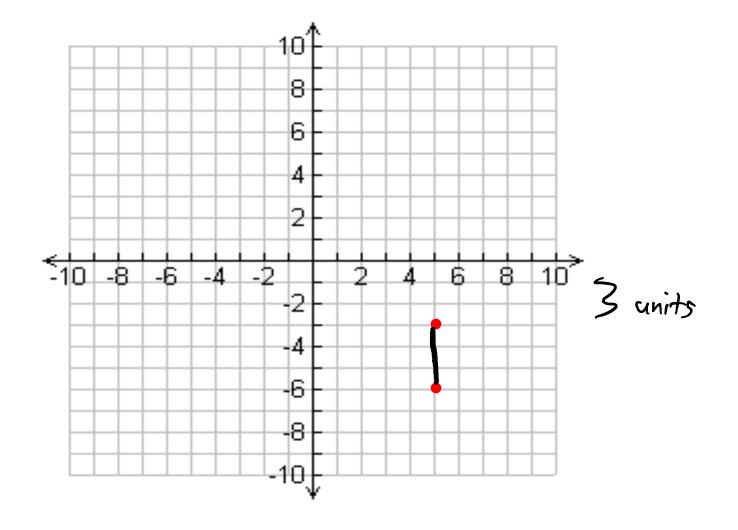
Objectives:

- Find the distance between any two points on the coordinate plane:
 - Horizontally
 - Vertically
 - Diagonally

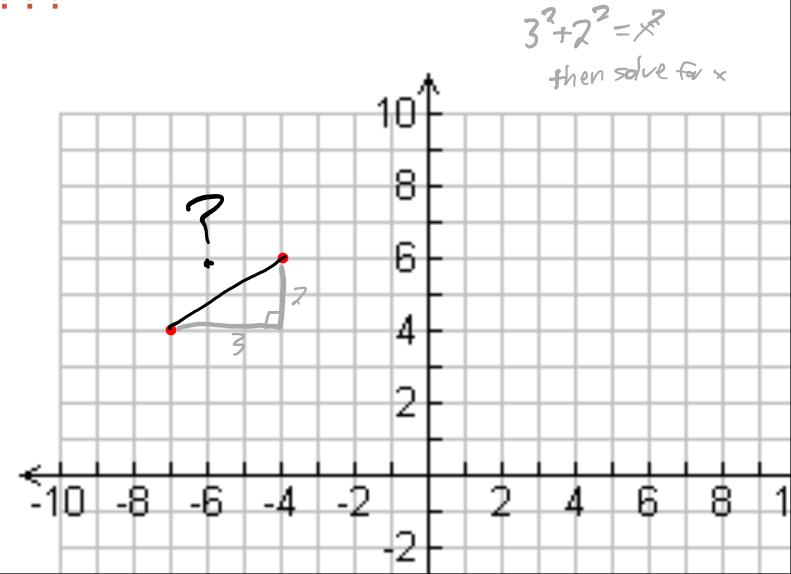
How far are these points from each other???



How far are these points from each other???



How far are these points from each other???



Activity: Estimating Distances

For each one:

- Draw the two points
- ESTIMATE the distance, in cm, between the points.
- Measure the actual distance to the nearest tenth of a centimeter.

- 1. (1, 23) and (5, 21)
- 2. (9, 17) and (17, 23)
- 3. (1, 15) and (2, 10)
- 4. (11, 11) and (15, 15)
- 5. (2, 7) and (18, 0)

HW: p.415 (1 – 6, 12) p. 435 (1 – 4) • DUE THURSDAY