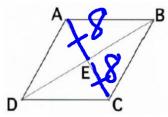
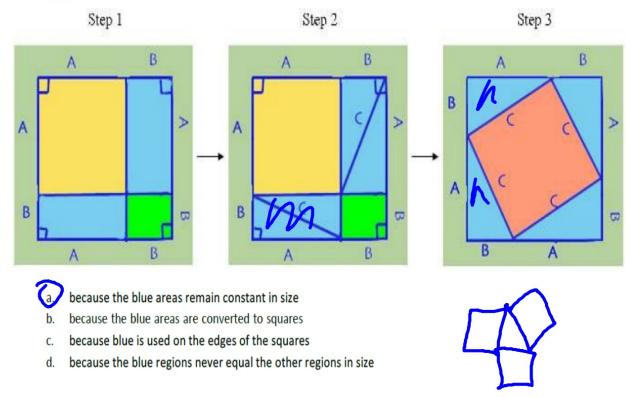
- 7. The quadrilateral shown is a rhombus. If AB = 17 and AE = 8, what is the measure of AC?
 - a. 8
 - b. 12
 - 16



- 8. \triangle ABC is a scalene triangle. $m \angle A = (2x + 8)^{\circ}$, $m \angle B = (2x 2)^{\circ}$, and $m \angle C = (3x 8)^{\circ}$. Find the measure of the largest angle.
- 26° A)
- B) 50°
- C) 60°
- D) 70°

9. Shown here are the three essential steps in a proof of the Pythagorean Theorem. Why is the color blue kept the same in all threesteps?



a2+b2-12

10. Given that \triangle ACB ~ \triangle ADC ~ \triangle CDB, which statements can be used to prove the Pythagorean theorem using what is known aboutsimilar triangles?

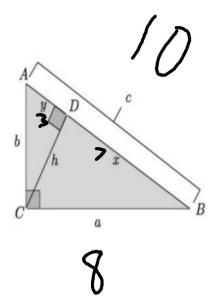


B) $a^2 = vc$

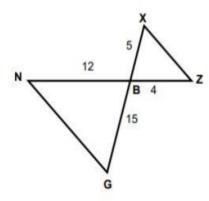
C) 6 X

(b) $b^2 = yc$ (c) $a^2 + b^2 = xc + yc$

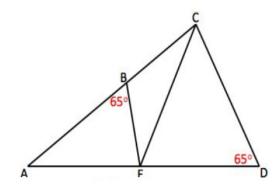
8 + 6= 70 + 30



- 11. Determine if the triangles, ΔZBX and ΔNBG , are similar. If so, identify the similarity criterion.
 - a. AA similarity
 - b. SAS similarity
 - c. SSS similarity
 - d. not similar



- 12. If \angle BAE = 45° and \angle CED = 70° is \triangle ABE ~ \triangle CDE? If so, by what criterion?
 - a. yes, by AA criterion
 - b. yes, by SAS criterion
 - c. yes, by SSA criterion
 - d. no, not possible to tell.



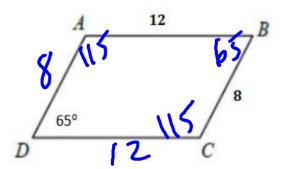
42

13. Given that quadriilateral shown is a parallelogram, which statements correct?

A)

(C) (D)

DC = 12



49

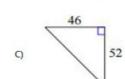
14. Identify the similar triangle to the triangle shown.

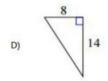
X

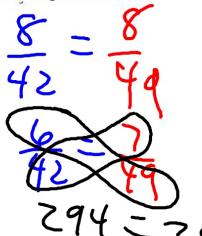


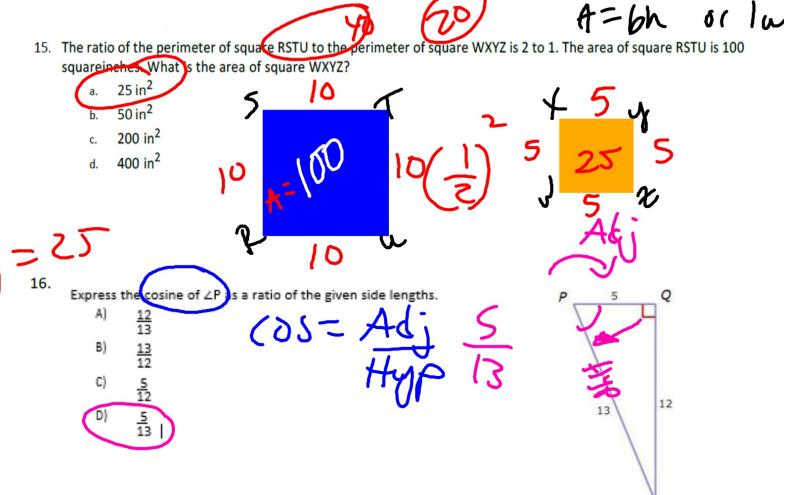






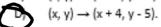


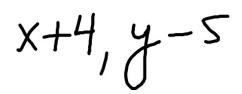


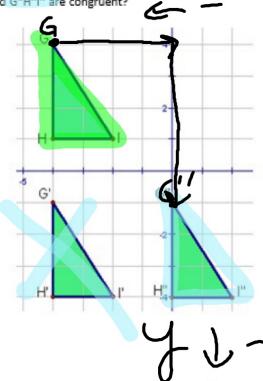


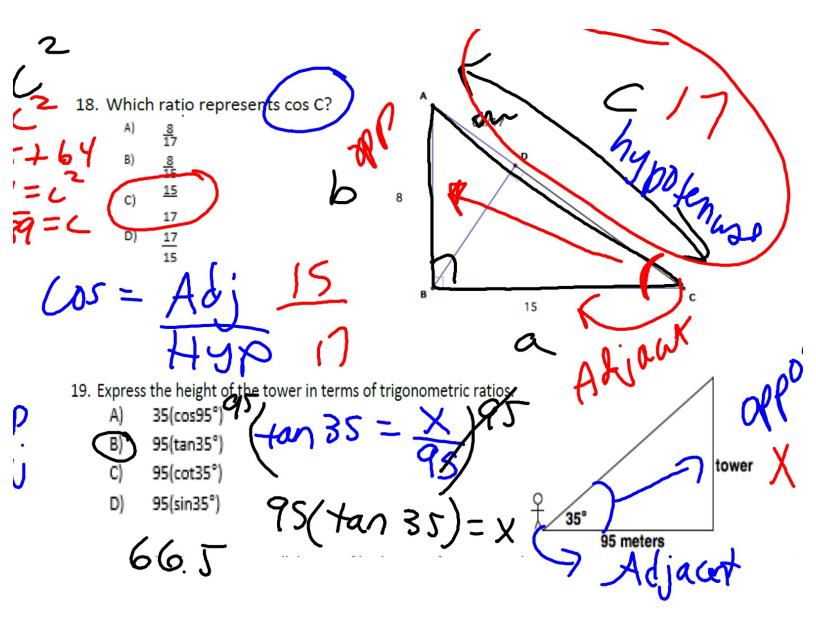
What translation can we use to directly show that triangles GHI and G"H"I" are congruent?

- A) $(x, y) \rightarrow (x + 3, y 4)$.
- B) (x, y) → (x 3, y + 1).
- C) $(x, y) \rightarrow (x + 2, y + 2)$.









20. Quadritaleral ABCD is a parallelogram if both pairs of opposite sides are congruent.

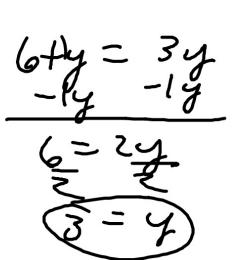
Show that quadritlateral ABCD is a parallelogram by finding the lengths of the

opposite side pairs.

a. 6, 3

b. 9,6

c. 12, 6 d. 12, 9 4=30



10+2

AB = x + 2 DC = 22 - x

AD = 6 + yBC = 3y