d= ((x,-x2)2+(y,-y2)2

 $d = \sqrt{(4-1)^2 + (7-4)^2}$

The map coordinates of a campground are (1, 4), and the coordinates of a fishing pier $d=\sqrt{(3)^2+(3)^2}$ are (4, 7). Each unit on the map represents $d=\sqrt{9+9}$ 1 kilometer. If Alejandro walks in a straight line from the campground to the pier, how many kilometers, to the nearest tenth, will he walk? $d \approx 4.2$

- A 3.5 kilometers
- © 6.0 kilometers
- B 4.2 kilometers
- D 12.1 kilometers



Lily conjectures that if a number is divisible by 15, then it is also divisible by 9. Which of the following is a counterexample?

F 45

H 60

G 50

J 72



Miyoko went jogging on July 25, July 28, July 31, and August 3. If this pattern continues, when will Miyoko go jogging next? plus 3 days

A August 5

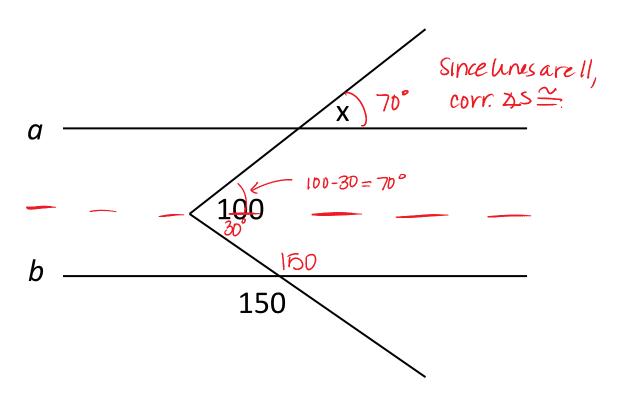
C August 7

B August 6

D August 8



Given a b. Find x.



For the given conditional statement, write the following statements and determine if it is true or false:

Conditional Statement: If two angles are supplementary, then they are congruent. F

- a) Converse Statement: If 2 ≯S are ≅, then they are supplementary.
 b) Inverse Statement: If 2 ≯S are NOT supplementary, then they are not?
- c) Contrapositive Statement: If 2 \$5 are NOT \(\times\) then they are NOT supplementary.
 d) Biconditional Statement: TWO angles are supplementary if and only if they are \(\times\).



The measure of an angle is 6 more than twice the measure of the supplement. Find the measure of the supplement of the angle.





Given the following statements, what property do they justify?

- 94° = 94° Reflexive a.
- If $\angle A$ is complementary to $\angle B$ and $\angle B \cong \angle C$, then $\angle C$ is b. complementary to ∠B. SUBSTITUTION
- If $\angle GEO \cong \angle ALG$ and $\angle ALG \cong \angle MAT$, then $\angle GEO \cong \angle MAT$. Transitive C.
- If $\angle RED \cong \angle DEV$, then $\angle DEV \cong \angle RED$. Symmeth \angle d.

Law of Syllogism: Decide if the conjecture is valid. If it is INVALID, write the correct conjecture.

Given: If Sally goes to bed early, then she will not get sick. If Sally eats an apple, then her mom will be happy. If her mom is happy, then Sally goes to bed early.

Conjecture: If Sally eats an apple, then she will not get sick.

Valid or Invalid?!



Using the diagram, name a pair of ...

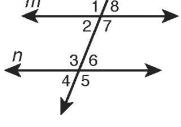
a. Same Side Interior Angles 22923;27926

b. Alternate Exterior Angles 41945, 48944

c. Corresponding Angles 41943;42944;
d. Vertical Angles

48946;47945

d. Vertical Angles LIG L7, 12628, 23925, 249 LL





Are the lines parallel, perpendicular or neither:

$$5x - 4y = 10$$
 and $5y = -4x + 6$

$$-4y = -5x + 10$$

$$y = -\frac{1}{10}x + 10$$

$$y = -\frac{1}{10}x + 10$$
Slopes are opp. reciprocals $\Rightarrow \bot$