Angle Puzzle

Given the following information, find the missing angle measurements.

$m\angle$ KAB = 148°
$m\angle$ EOF = 45°
$m\angle$ DEF = 65°
$m\angle$ ODE = 145°
$m\angle$ JFH = 122°

1. $m\angle$ OEF = _____

2. $m\angle$ DEO = _____

3. $m\angle$ DOE = _____

4. $m\angle$ FGH = _____

5. $m\angle$ DOC = _____

6. $m\angle$ ODC = _____

7. $m\angle$ DCO = _____

8. $m\angle$ COA = _____

9. $m\angle$ AOB = _____

10. $m\angle$ BOC = _____

11. $m\angle$ OAB = _____

12. $m\angle$ ABO = _____

13. $m\angle$ OBC = _____

14. $m\angle$ BCO = _____

15. $m\angle$ GOF = _____

16. $m\angle$ OFG = _____

17. $m\angle$ GFH = _____

18. $m\angle$ FGH = _____

19. $m\angle$ EFJ = _____

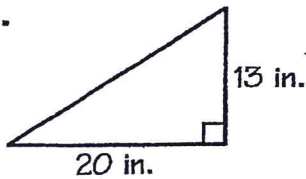20. $m\angle$ GOC = _____

21. $m\angle$ FHG = _____
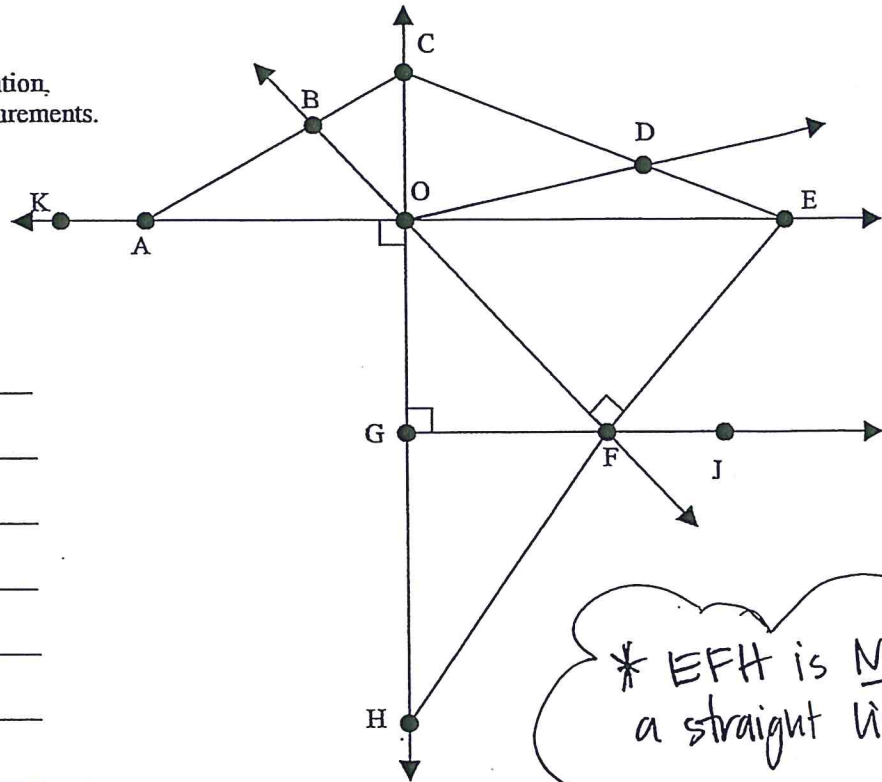
* EFH is NOT a straight line!!

Are lines L and M parallel?
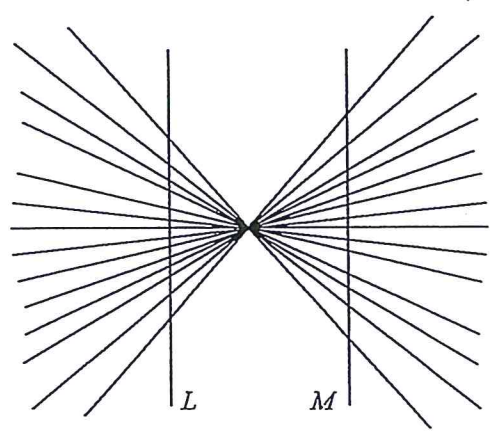
Where Does the Scent of a Lady's Perfume Go?

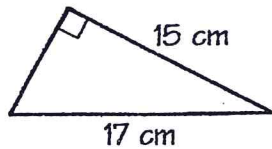**ind the missing side length, if possible.**

1. 13 in. 20 in.

2. 15 cm 17 cm

3. 0.9 mi 1.2 mi

4. 50 m 60 m
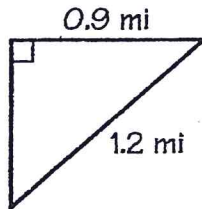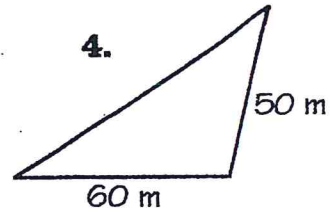
Solve.

5. For this parallelogam,
   a. Find the height.
   b. Find the area.
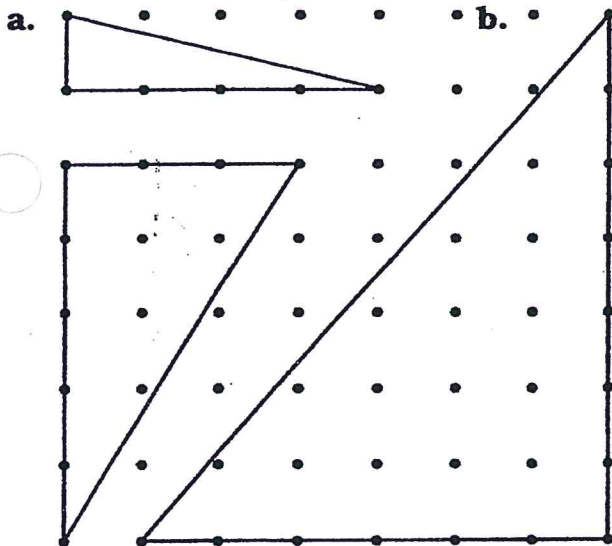
15 ft h ⊢9 ft⊣⊢10 ft⊣
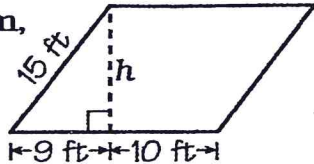
6. These triangles are drawn on 1-cm dot paper. Find the perimeter of each.
   a.
   b.

7. A 50-ft cable is stretched from the top of an antenna to an anchor point on the ground 15 ft from the base of the antenna. How tall is the antenna?

8. In a rectangular coordinate system, what is the distance from (−2,−1) to (5,3)?
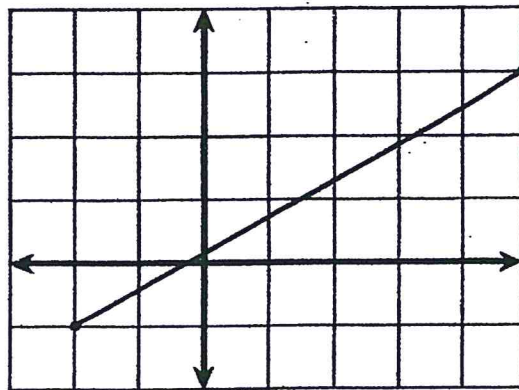
9. A lifeguard spots a drowning swimmer 40 ft from the beach. She runs 90 ft along the beach at a speed of 15 ft/s, then jumps in the water and swims straight to the swimmer at a speed of 5 ft/s. How long does it take her to reach the swimmer?

90 ft 30 ft lifeguard 40 ft swimmer

G	O	N	E	T	O	O	S	N	C	E	N	T	G	O	L	E	S	T	E	D
7 ft	12 ft	8.4	13.8 cm	16 s	11.4 cm	10.5 ft	228 ft^2	18 s	0.8 mi	20.5 cm	46.9 ft	8.1	23.9 in.	0.6 mi	22.2 cm	not possible	275 ft^2	8 cm	24.2 in.	9.1 cm

The Pythagorean Theorem and Inequalities:
Finding a Side of a Right Triangle

SHOW ALL WORK ON A SEPARATE SHEET OF GRAPH PAPER. DRAW ALL TRIANGLES!