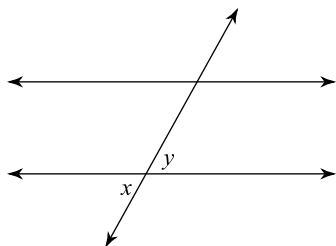


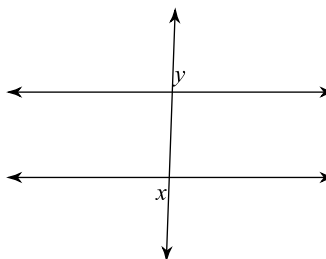
Angle Relationships & Area

Identify each pair of angles as corresponding, alternate interior, same-side interior, or vertical. If there is no direct relationship, list a way to connect the angles together.

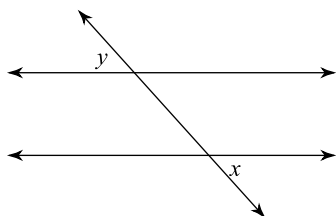
1)



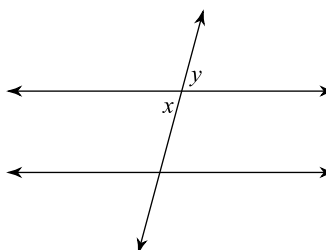
2)



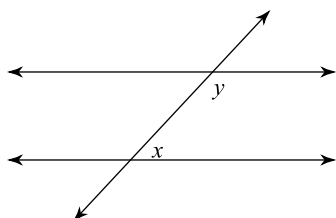
3)



4)

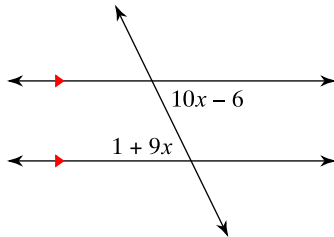


5)

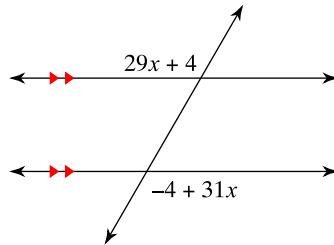


Solve for x .

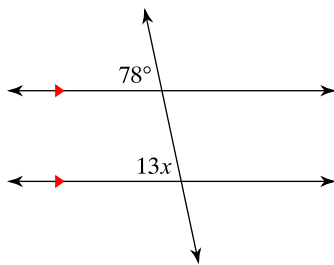
6)



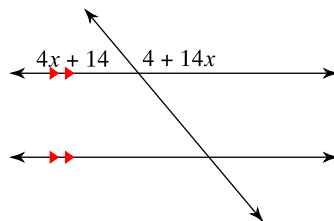
7)



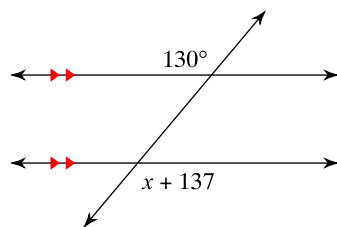
8)



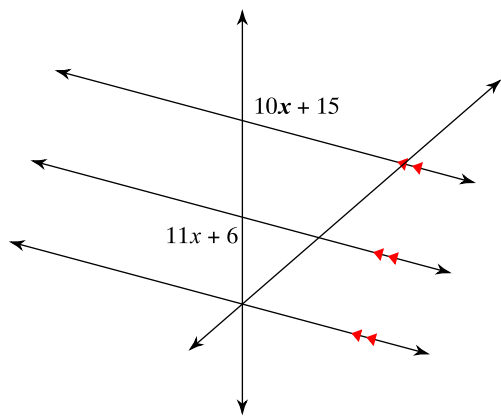
9)



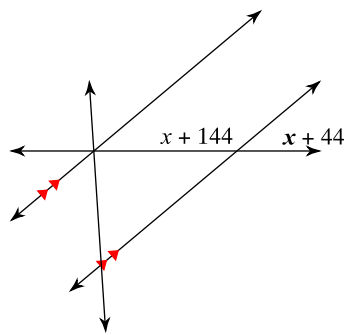
10)



11)

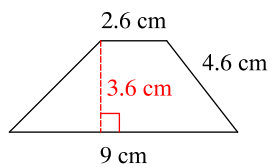


12)

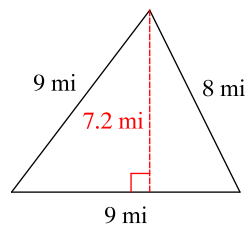


Find the area of each.

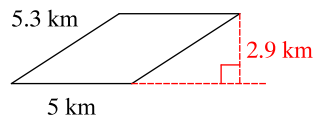
13)



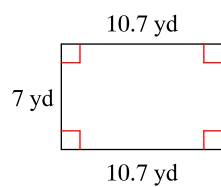
14)



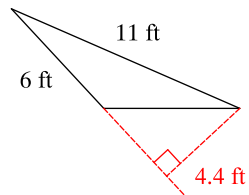
15)



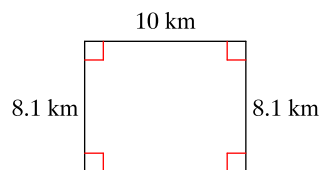
16)



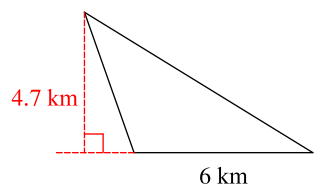
17)



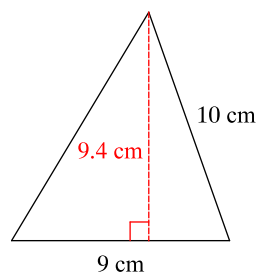
18)



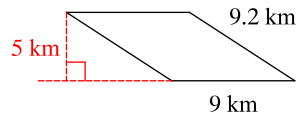
19)



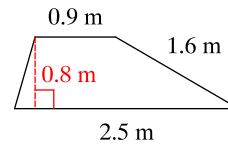
20)



21)

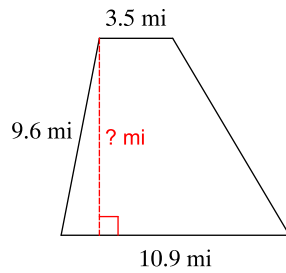


22)



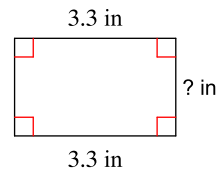
Find the missing measurement. Round your answer to the nearest tenth.

23)



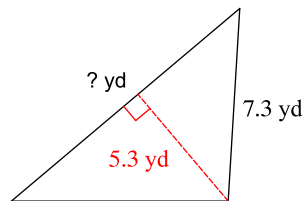
$$\text{Area} = 67.7 \text{ mi}^2$$

24)



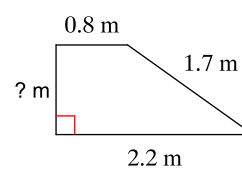
$$\text{Area} = 6.6 \text{ in}^2$$

25)



$$\text{Area} = 29.9 \text{ yd}^2$$

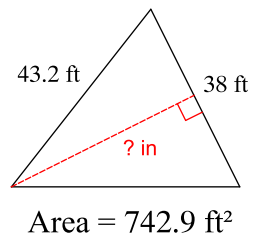
26)



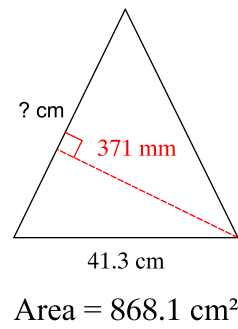
$$\text{Area} = 1.5 \text{ m}^2$$

Find the missing measurement. Round your answer to the nearest tenth. Take care to use the correct units.

27)



28)



Answers to Angle Relationships & Area

- | | | | |
|--------------------------|-------------------------|-------------------------|-------------------------|
| 1) vertical | 2) alternate exterior | 3) alternate exterior | 4) vertical |
| 5) consecutive interior | 6) 7 | 7) 4 | 8) 6 |
| 9) 9 | 10) -7 | 11) 105° | 12) 40° |
| 13) 20.88 cm^2 | 14) 32.4 mi^2 | 15) 14.5 km^2 | 16) 74.9 yd^2 |
| 17) 13.2 ft^2 | 18) 81 km^2 | 19) 14.1 km^2 | 20) 42.3 cm^2 |
| 21) 45 km^2 | 22) 1.36 m^2 | 23) 9.4 mi | 24) 2 in |
| 25) 11.3 yd | 26) 1 m | 27) 469.2 in | 28) 46.8 cm |