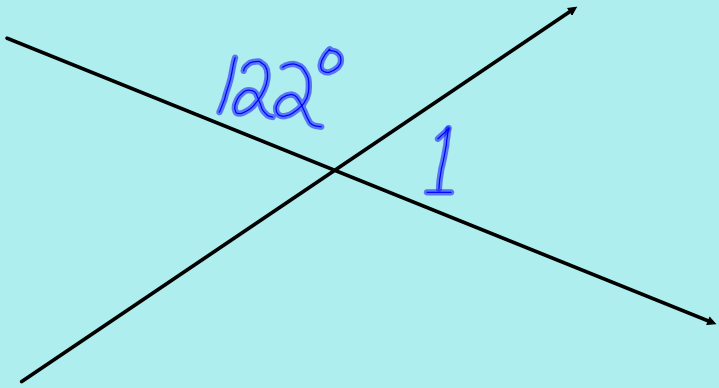
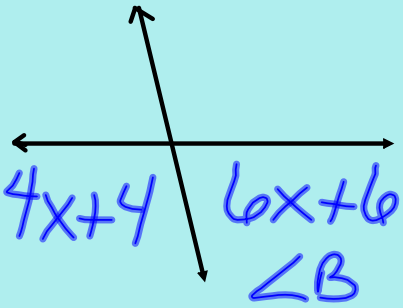
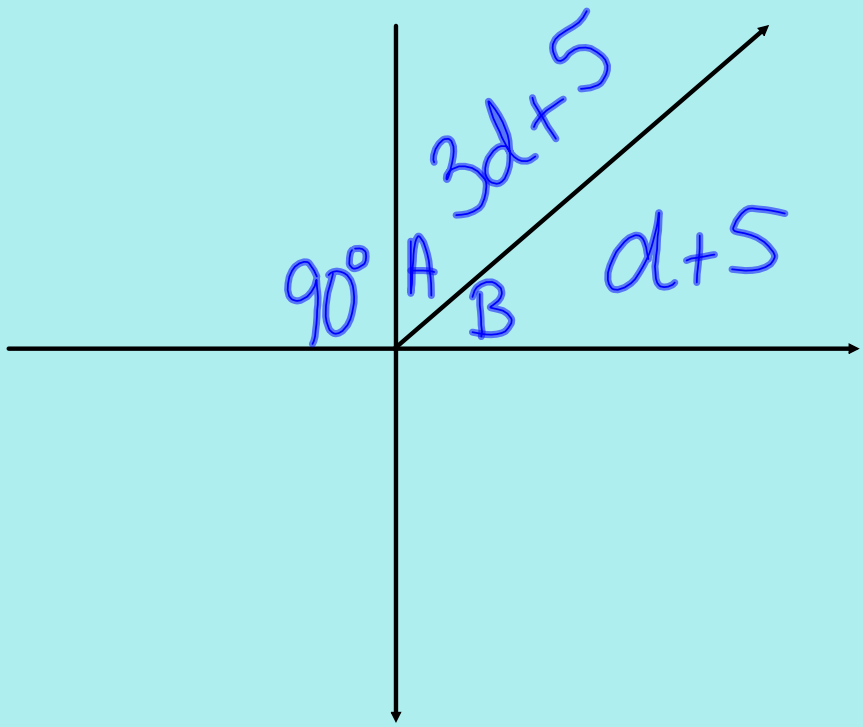
1. Find the measure of angle 1.



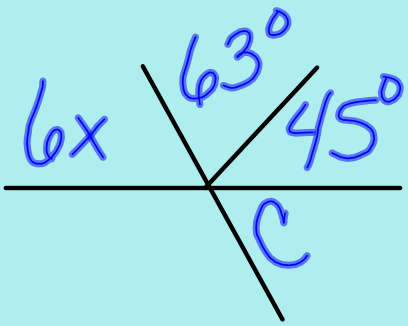
2. Find the measure of angle B.



3. Find the measure of angle A.



4. Find the measure of angle C.



5. Can this be a triangle?

25 m, 55 m, 30 m

6. Can this be a triangle?

8 cm, 8 cm, 8 cm

7. Can this be a triangle?

9 ft, 20 ft, 10 ft

8. Can this be a triangle?

100 yd, 20 yd, 90 yd

Find the missing angle measures and classify the triangle.

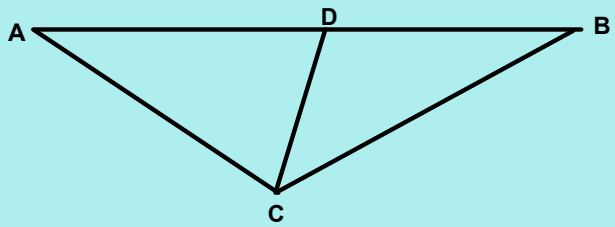
1) 43, 47, _____ _____

2) 2, 54, _____ _____

3) 63, 89, _____ _____

4) 20, 103, _____ _____

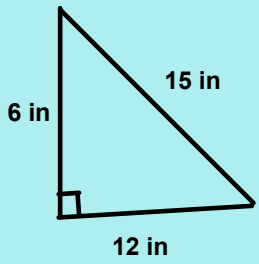
9.



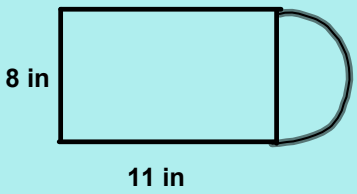
m∠ DAC = 30
m∠ ADC = 120
m ∠ DBC = 35

What is the m ∠ ACB?

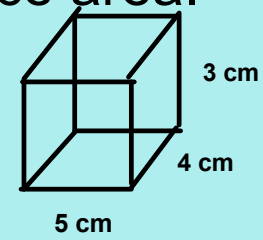
10. Find the area.



11. Find the area of the composite figure.

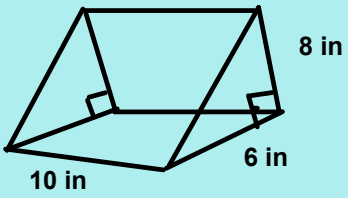


12. Find the surface area.



Find the volume.

13. Find the volume.



14. A cake has an area of 50.24 sq. inches. What is the minimum size of a square tray placed underneath it so the cake does not touch the table? Draw a picture and solve.

15. You ride your bike on a circular trail that has a diameter of 4 miles. If you ride around the trail twice, how many miles have you ridden?

16. A square pyramid shaped building needs to be painted on all sides excluding the base. If it is 20 feet tall and 25 feet wide, how many square feet need to be painted?

17. What is the sum of the measures of the angles in a triangle?

1. 58 degrees
2. 108 degrees
3. 65 degrees
4. 72 degrees
5. No they equal each other
6. Yes Equilateral
7. No 19 is not greater than 20
8. Yes 110 is greater than 100

90.....Rt Triangle
124.....Obtuse
28.....Acute
57.....Obtuse

9. 115 degrees
10. 36 in sq
11. 113.12 sq.in
12. SA=94 cm2 volume 60 cm3
13. V=240 in3
14. 8" x8" tray or 64 sq in.
15. 25.2 miles
16. 100 sq.ft.
17. 180 degrees