1. What is the equation of a line parallel to 9x + 3y = 15 and goes through the point (-5, 6)?

$$y = -3x + b$$
 $y = -3x + b$
 $y = -3x + 5$
 $y = -3x + 5$
 $y = -3x + 5$
 $y = -3x + 5$

2. What is the equation of a line perpendicular to 9x + 3y = 15 and goes through the point (-5, 6)?

Circumference -

- outside edge of the circle

Diameter in thru chord going thru center of circle

Circumference	Diameter	Ratio C/D

Circumference Conjecture:

$$C = D\pi$$

$$C = 2\pi r$$

$$\frac{C}{\pi} = D$$

$$\frac{C}{\pi} = r$$

In Exercises 1–4, leave your answers in terms of π . – exact answer

1. If r = 10.5 cm, find C.

C=2177 =2(10.5)17

3. What is the circumference of a circle whose radius is 30 cm?

C=277(30) C=6077 cm **2.** If $C = 25\pi$ cm, find r.

25.12-2mr

C=12.5c

4. What is the diameter of a circle whose circumference is 24π cm?

C=D 24II-D D=24cm In Exercises 5–9, round your answer to the nearest 0.1 unit. Use the symbol \approx to show that your answer is an approximation.

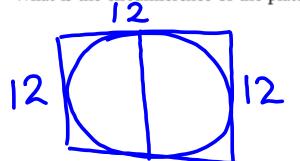
5. If d = 9.6 cm, find C.

6. If C = 132 cm, find d and r.



230.2cm

7. A dinner plate fits snugly in a square box with perimeter 48 inches. What is the circumference of the plate?



C=TC| = 127 inches

