

Geometry

1st Semester

1-3: Solve for x .

Problem Set #1

Name: _____

Period: _____

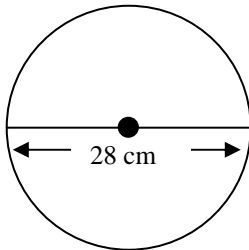
1. $3 + 2(x - 2) = 7 + 4x$

2. $2x^2 - 9x - 5 = 0$

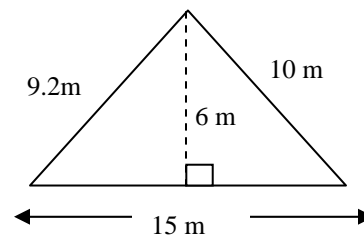
3. $\frac{x-3}{6} = \frac{3}{4}$

4-7 Find the area of each figure. Use calculator π for circles. Round to nearest tenth.

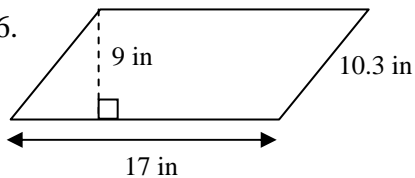
4.



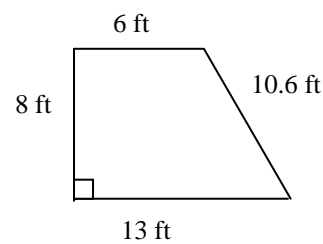
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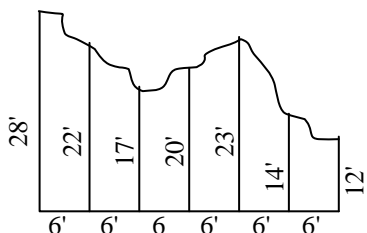
6.



7.



8. Find the approximate area using the given measurements.



Work space for #8

9. The area of a circle is $36\pi \text{ cm}^2$. Find the diameter of the circle.
10. The height of a triangle is 8 cm and its area is 24 square centimeters. Find the length of the base.
11. The area of a square is 121 square inches. Find the perimeter.

12-13: Graph the following equations.

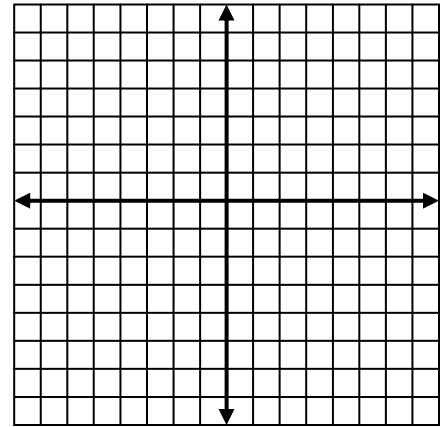
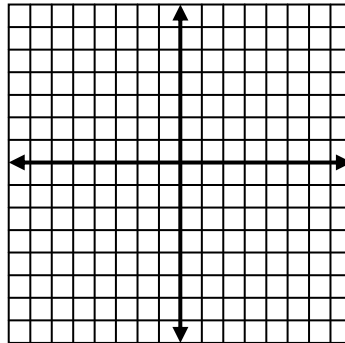
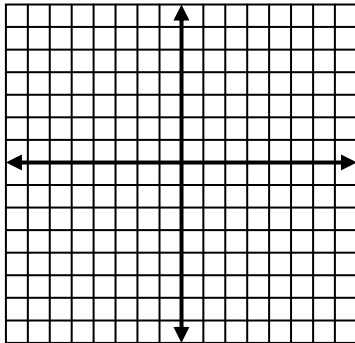
12. $y = -\frac{2}{3}x + 4$

13. $2x - 3y = 9$

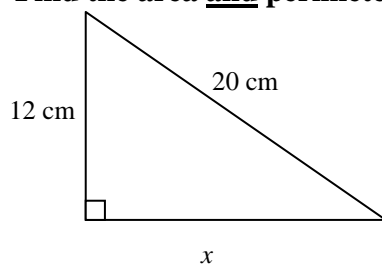
14. $y = x - 2$

Graph these four lines **and** find the area of the enclosed shape.

$y = 3$
 $y = -2$
 $x = -3$



15. Find the area and perimeter.



16. You have 96 feet of fencing and you need to make a rectangular pen with the most area for your dog. What dimensions would you make the pen?