**What slope would a line parallel to the given line have? What slope would a perpendicular line have?**

1. $y=-\frac{1}{6}x-6$

 Parallel slope\_\_\_\_\_\_\_\_\_ Perpendicular slope \_\_\_\_\_\_\_\_\_

**Using slope –intercept form (y=mx+b), write the equation of the line passing through the given points.**

2. $\left(4, -2\right) and (3, 1)$

**Use Pythagorean Theorem to solve for the missing side. Round your answers to the nearest tenth if necessary. Find the area of the triangle:**

3.

x

10 cm

 X= \_\_\_\_\_\_\_

20 cm

 Area = \_\_\_\_\_\_\_\_\_\_

**Write the equation in slope intercept form and graph: (label your lines)**

4. $3x-2y=6$

5. $x+y=2$