Mathematics 2

1. Find the area of the triangle whose vertices are $A = (-2, 3)$, $B = (6, 7)$, and $C = (0, 6)$.

2. If triangle ABC is isosceles, with $AB = AC$, then the medians drawn from vertices B and C must have the same length. Write a *two-column proof* of this result.

3. Let $A = (-4, 0)$, $B = (0, 6)$, and $C = (6, 0)$.
(a) Find equations for the three medians of triangle ABC.
(b) Show that the three medians are concurrent, by finding coordinates for their common point. The point of concurrence is called the *centroid* of triangle ABC.

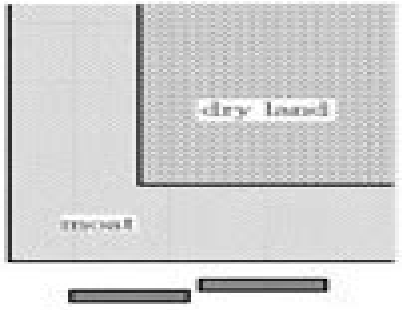
4. Given points $A = (0, 0)$ and $B = (-2, 7)$, find coordinates for points C and D so that $ABCD$ is a square.

5. Given the transformation $\mathcal{F}(x, y) = (-0.6x - 0.8y, 0.8x - 0.6y)$, Shane calculated the image of the isosceles right triangle formed by $S = (0, 0)$, $H = (0, -5)$, and $A = (5, 0)$, and declared that $\mathcal{F}$ is a reflection. Morgan instead calculated the image of the *scalene* (non-isosceles) triangle formed by $M = (7, 4)$, $O = (0, 0)$, and $R = (7, 1)$, and concluded that $\mathcal{F}$ is a rotation. Who was correct? Explain your choice, and account for the disagreement.

6. Let $A = (0, 12)$ and $B = (25, 12)$. If possible, find coordinates for a point P on the x-axis that makes angle APB a right angle.

7. Brett and Jordan are out driving in the coordinate plane, each on a separate straight road. The equations $B_t = (-3, 4) + t[1, 2]$ and $J_t = (5, 2) + t[-1, 1]$ describe their respective travels, where t is the number of minutes after noon.
(a) Make a sketch of the two roads, with arrows to indicate direction of travel.
(b) Where do the two roads intersect?
(c) How fast is Brett going? How fast is Jordan going?
(d) Do they collide? If not, who gets to the intersection first?

8. A castle is surrounded by a rectangular moat, which is of uniform width 12 feet. A corner is shown in the top view at right. The problem is to get across the moat to dry land on the other side, without using the drawbridge. To work with, you have only two rectangular planks, whose lengths are 11 feet and 11 feet, 9 inches. Show how the planks can get you across.



9. Find k so that the vectors $[4, -3]$ and $[k, -6]$
(a) point in the same direction; **(b)** are perpendicular.

10. The lines $3x + 4y = 12$ and $3x + 4y = 72$ are parallel. Explain why. Find the distance that separates these lines. You will have to decide what "distance" means in this context.

11. Give an example of an equiangular polygon that is not equilateral.

12. Find coordinates for a point on the line $4y = 3x$ that is 8 units from $(0, 0)$.

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George Albert Wentworth

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