



2-104. 10 units

2-105. See below.

a. (1) (5, 3)      (2) (2, 6)

b.  $p: y = 2x + 8$ ;  $q: y = -\frac{1}{2}x + 3$

c. The slopes indicate that the lines are perpendicular.

d. The solution should be  $(-2, 4)$ .

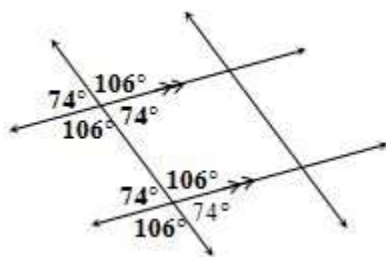
2-106. See below.

a. Right triangle; slopes are opposite reciprocals.

b. 20 square units

c.  $\approx 23.4$  units

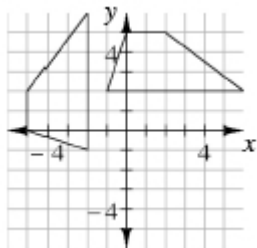
2-107. See solutions on the diagram below.



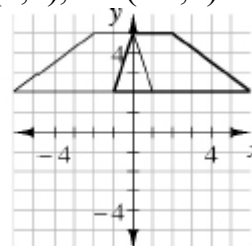
2-108. See graph below.

a. It is a trapezoid because it has one pair of parallel sides.

b.  $A'(-2, -1)$ ,  $B'(-5, 0)$ ,  $C'(-5, 2)$ ,  $D'(-2, 6)$



c.  $A''(1, 2)$ ,  $C'''(-2, 5)$



d.  $\frac{1}{2}(3)(2+7) = 13.5$  units