EDUCATIONAL ASSIGNMENT for JOSEPH JOHN WUNDERLICH for 11th grade

This assignment covers the following Educational Objectives (Subjects marked with a "■" are the main subject, and those marked with an "□" are secondary subjects):

- ■ Geometry

Solve the following problems. Use a pencil.

Find the angle measure.

7. $\angle A$ is a complement of $\angle B$, and $m\angle A = 11°$. Find $m\angle B$.

$90 - 11 = 79$ $\quad m\angle B = 79°$

8. $\angle A$ is a supplement of $\angle B$, and $m\angle B = 122°$. Find $m\angle A$.

$180 - 122 = 58$ $\quad m\angle A = 58°$

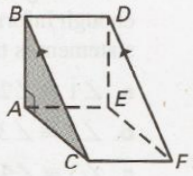
9. $\angle C$ is a complement of $\angle D$, and $m\angle C = 88°$. Find $m\angle D$.

$90 - 88 = 2$ $\quad m\angle D = 2°$

Think of each segment in the diagram as part of a line.

9. Name a plane that appears parallel to plane ABC.

E, D, F



10. Name a line that is perpendicular to plane ABD.

A, C

11. Name a line that is perpendicular to plane AEC.

A, B

12. Name a line that is skew to $\overleftrightarrow{BC}$.

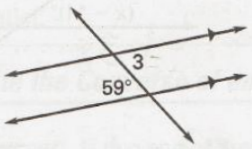
E, D

13. Name a line that is parallel to $\overleftrightarrow{BC}$.

D, F

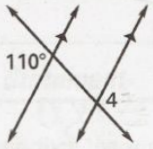
Find the measure of the numbered angle.

4.



$m\angle 3 = 59°$

5.



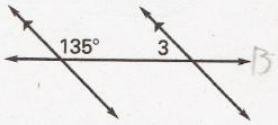
$m\angle 4 = 110°$

6.

$m\angle 5 = 167$

Find the measure of the numbered angle.

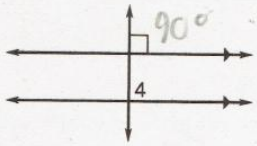
7.



$180 - 135 = 45°$

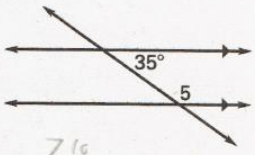
$m\angle 3 = 45°$

8.



$m\angle 4 = 90°$

9.

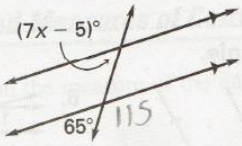


$180 - 35 = 145°$

$m\angle 5 = 145°$

Find the value of *x*.

10.

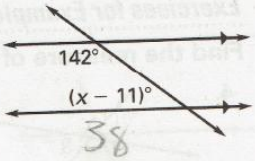


$(7x - 5) + 65 = 180$

$7x + 60 = 175$

$7x = 115$

11.



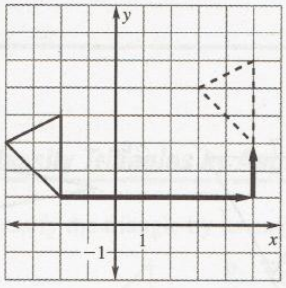
$(x - 11) + 142 = 180$

$x + 131 = 169$

$x = 38$

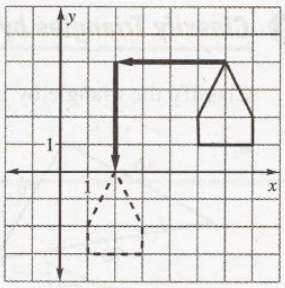
Describe the translation using coordinate notation.

6.



$(x, y) \rightarrow (x + 7, y + 2)$

7.



$(x - 4, y - 4)$