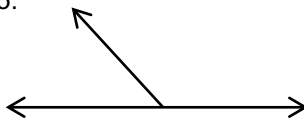## Test 2 Review
Sections 1.5 & 1.6
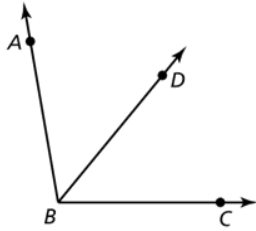
In exercise 1-4, draw an example of each angle.

1. Acute Angle	2. Obtuse Angle
3. Right Angle	4. Linear Pair

In exercise 5-7, describe the following diagrams.

5.	6.

7.

55°

35°

Name_____Date_____Per_____

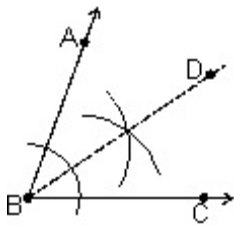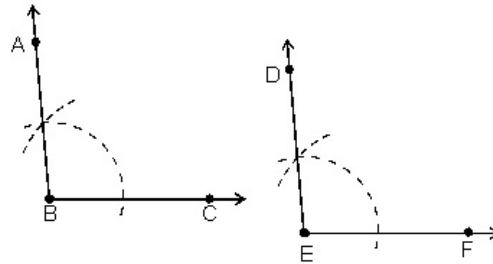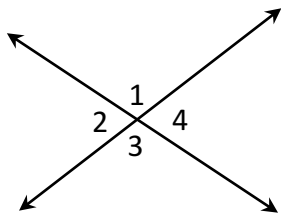|	
8. $\overrightarrow{BD}$ bisects $\angle ABC$. If $m\angle ABD = 42°$, what is the measure of $\angle ABC$?	9. Without using a protractor, estimate the measures of $\angle 1$, $\angle 2$, $\angle 3$, & $\angle 4$ below?
10. Based on the construction below, what can be stated about $\angle ABD$ and $\angle CBD$? $\angle ABD$ and $\angle CBD$ are _____	11. Based on the construction below, what can be stated about $\angle ABC$ and $\angle DEF$?
12. In the diagram below, the $m\angle 1 = (2x + 8)°$ and $m\angle 3 = (4x - 26)°$. Solve for x.	13. If m$\angle DGB = 35°$ and m$\angle CGF = 75°$, find the measure of the 4 remaining angles.
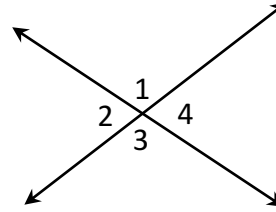
2
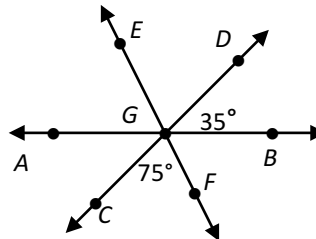
14. The pictures below show the steps of constructing a congruent angle. (G.5B)
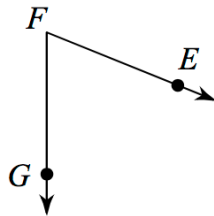
1

2

3

4
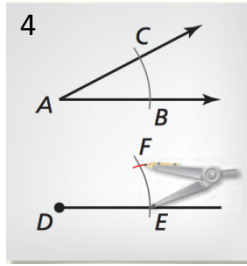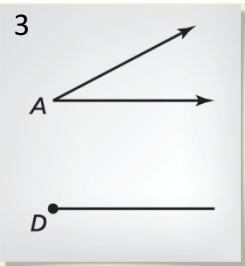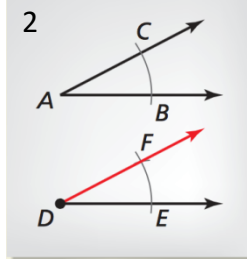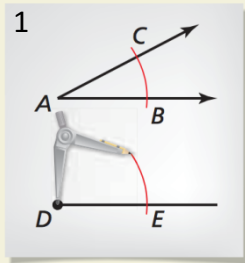
What order should the pictures be in to correctly construct a congruent angle?

15. The pictures below show the steps for constructing an angle bisector. (G.5B)
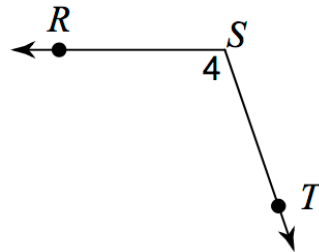
1

2

3
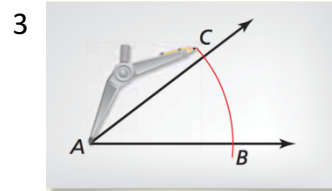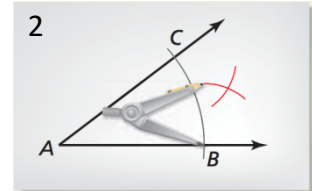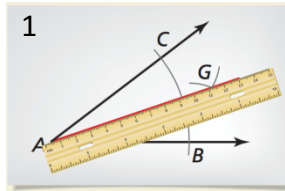
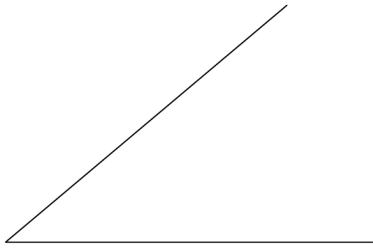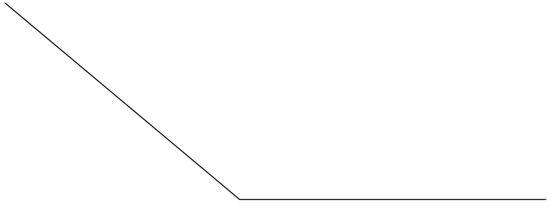What order should the pictures be in to correctly construct an angle bisector?

16. Name the vertex and the sides of each angle.

17. Name each angle in four ways.

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In exercise 18 & 19, find the measure of each angle to the nearest degree and say if it's acute or obtuse.
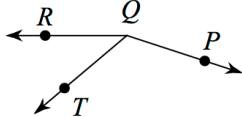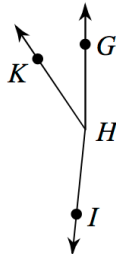
18.	19.

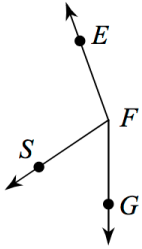In exercise 20 & 21, draw an angle with the given measurement and say if it's acute or obtuse.

20. 100°

21. 20°

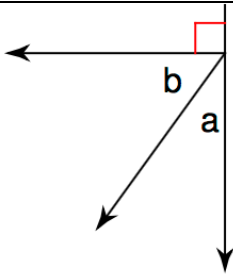| 22.	23.
$m\angle PQT = 122°$ and $m\angle PQR = 162°$. Find $m\angle TQR$.	$m\angle KHG = 34°$ and $m\angle IHK = 140°$. Find $m\angle IHG$.
R Q P T	K G H I

4

24. $m\angle GFS = x + 57$, $m\angle SFE = x + 105$,
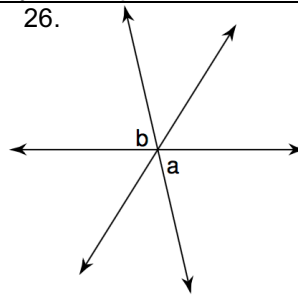and $m\angle GFE = 160°$. Find x.

E

F

S

G

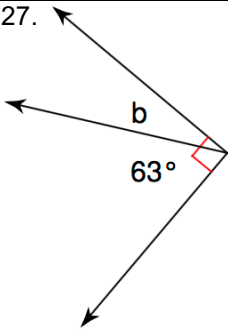In exercise 25 & 26, name the relationship: complementary, linear pair, vertical, or adjacent.
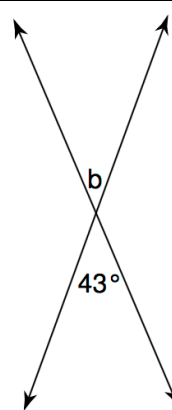
25.

b

a

26.

b

a

In exercise 27 & 28, find the measure of b.

27.

b

63°

28.

b

a

43°

29. Find the value of x

$(3x + 18)°$

$93°$