ACC Geometry Check   Name _Key_____ ID: 1

What I Should Have Mastered By Now#1   Date_____ Period____

Simplify the radical.

1) $\sqrt{648}$

  A) 21   B) $18\sqrt{2}$ C) $10\sqrt{3}$ D) 14

Slope: Find the slope of the line through each pair of points.

2) $(-5, 18), (-8, 15)$

  A) -1 B) 1 C) $\dfrac{3}{5}$ D) $-\dfrac{3}{5}$

Distance: Find the distance between each pair of points.

3) $(-1, -2), (-5, -8)$

  A) 2   B) $2\sqrt{13}$ C) $\sqrt{10}$ D) $2\sqrt{34}$

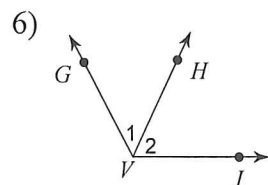**Midpoint: Find the midpoint of the line segment with the given endpoints.**

4) $(0, -2), (8, -8)$

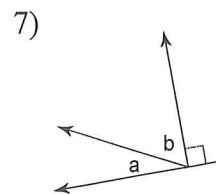 A) $(16, -14)$ B) $(-4, 3)$ C) $(4, -5)$ D) $(-1, 0)$

Endpoint: Find the other endpoint of the line segment with the given endpoint and midpoint.

5) Endpoint: $(3, 5)$, midpoint: $(-10, 6)$

  A) $(-8, -3)$ B) $\left(6\dfrac{1}{2}, -\dfrac{1}{2}\right)$ C) $(-23, 7)$ D) $(4, -2)$
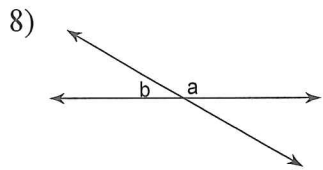
Name all the angles that have V as a vertex.

6)

  A) $\angle 1, \angle 2, \angle HGV$ B) $\angle 1, \angle 2, \angle VIH$ C) $\angle 1, \angle 2, \angle IHG$ D) $\angle 1, \angle 2, \angle GVI$
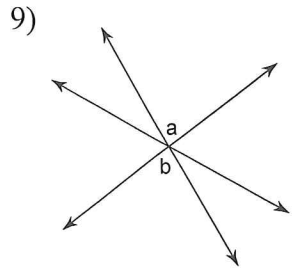
Name the relationship:

7)

  A) linear pair   B) complementary   C) vertical   D) alternate exterior
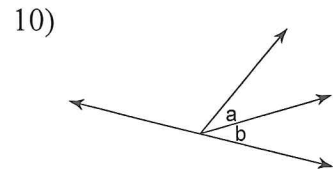
-1-

Name the relationship:

8)

A) alternate interior   B) linear pair   C) vertical   D) alternate exterior

9)

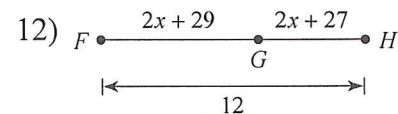A) linear pair   B) alternate exterior   C) complementary   D) vertical

10)

A) linear pair   B) alternate exterior   C) vertical   D) adjacent

Midpoint: Solve for x.

11) If B is the midpoint of AC, find x when AB = x + 5 and BC= 1 - 3x

    A) $\{9\}$ B) $\{-16\}$ C) $\{-1\}$ D) $\{14\}$

Segment Addition: Solve for x.

12)

    A) -1 B) -11 C) 11   D) 8

13) Draw and mark the following:

    Acute Triangle   Obtuse Triangle   Right Triangle   Isosceles Triangle

    Scalene Triangle   Equilateral

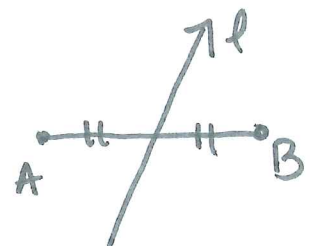   Congrent symbol   Parallel symbol   Perpendicular symbol

    Ray   Line   Segment   Segment Bisector

    Angle Bisector   Midpoint of a segment

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Simplify the radical.

1) $\sqrt{648}$

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Slope: Find the slope of the line through each pair of points.

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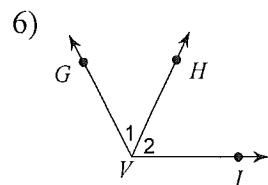**Midpoint: Find the midpoint of the line segment with the given endpoints.**

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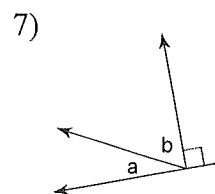   A) $(16, -14)$ B) $(-4, 3)$ C) $(4, -5)$ D) $(-1, 0)$

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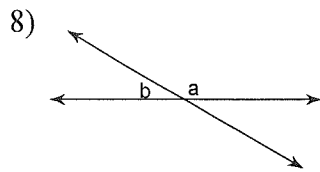
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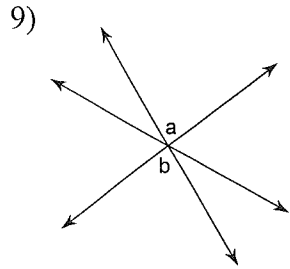
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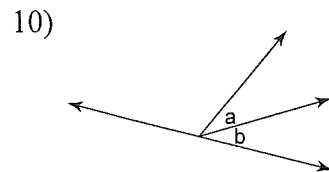
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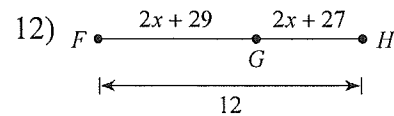
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A) {9}   B) {−16}   C) {−1}   D) {14}

Segment Addition: Solve for *x*.

12) $F \bullet \overset{2x + 29}{\rule{2cm}{0pt}} \underset{G}{\bullet} \overset{2x + 27}{\rule{2cm}{0pt}} \bullet H$

|← ———————— →|
12

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Angle Bisector   Midpoint of a segment