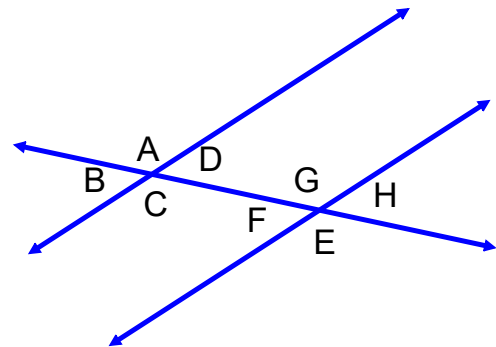


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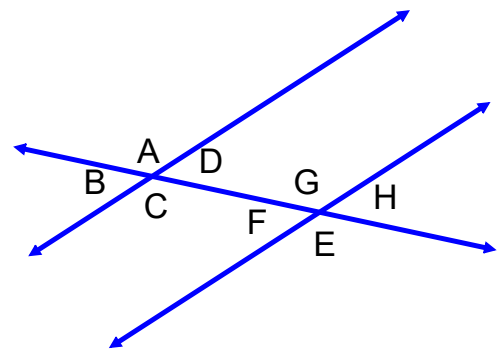
- 1 $\angle A$ and $\angle G$ are...
- A. corresponding B. alternate exterior
C. same-side interior D. vertical



- 2 $\angle G$ and $\angle D$ are...
- A. corresponding B. alternate exterior
C. same-side interior D. vertical

- 3 $\angle G$ and $\angle C$ are...
- A. corresponding B. alternate interior
C. same-side interior D. vertical

- 4 $\angle D$ and $\angle F$ are...
- A. corresponding B. alternate interior
C. same-side interior D. vertical



- 5 $\angle B$ and $\angle H$ are...
- A. corresponding B. alternate exterior
C. same-side interior D. vertical

- 6 $\angle C$ and $\angle E$ are...
- A. corresponding B. alternate exterior
C. same-side interior D. vertical

-
- 7 Alternate interior angles are
- A. congruent
B. supplementary
C. complementary
D. None of the above

- 8 same-side interior angles are
- A. congruent
B. supplementary
C. complementary
D. None of the above

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9

If $\angle 1$ and $\angle 2$ are alternate interior angles. If $\angle 1$ is 82 degrees, $\angle 2$ is....

- A. 98 B. 82 C. 8 D. need more info
-

10

If $\angle 3$ and $\angle 4$ are corresponding angles. If $\angle 3$ is 47 degrees, $\angle 4$ is....

- A. 47 B. 43 C. 133 D. need more info
-

11

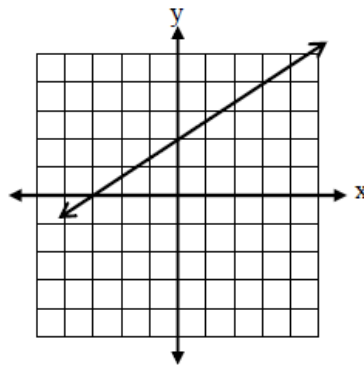
Which equation represents the line shown in the graph below?

A. $y = \frac{2}{3}x + 3$

B. $y = \frac{2}{3}x + 2$

C. $y = \frac{3}{2}x + 3$

D. $y = \frac{3}{2}x + 2$



12

$$y = \frac{1}{3}x + 2$$

$$x - 3y = 5$$

- A. Parallel
B. Perpendicular
C. neither
-

13

What is the slope of a line parallel to the line $5y = 5x + 20$

- A. 5 B. 20
C. 1 D. -1
-

14

Which line is parallel to the line $y = \frac{3}{5}x + 1$

A. $y = \frac{3}{5}x + 2$

B. $y = -\frac{3}{5}x + 4$

C. $y = \frac{5}{3}x + 6$

D. $y = -\frac{5}{3}x + 8$

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15 Find x.

A) 4.51 B) 5
C) 6.18 D) 10.37

16 Find x.

A) 5 B) 8
C) -10 D) 6

17 Find measure of angle y

A. 35 B. 55 C. 145 D. not possible

18 Find measure of angle x

A. 35 B. 55 C. 145 D. not possible

19 What is the slope of a line perpendicular to the line $y = 6x - 8$

A. 6 B. -6
C. $\frac{1}{6}$ D. $-\frac{1}{6}$

20 The equation of one line is $4x + 2y = 10$
The equation of a second line is $y = -2x + 3$

A. The two lines are parallel
B. The two lines are perpendicular
C. The two lines are neither parallel or perpendicular

21) The equation of one line is $y = 6x - 2$
The equation of a second line is $y = 6x + 1$

Which statement is true about the two lines?

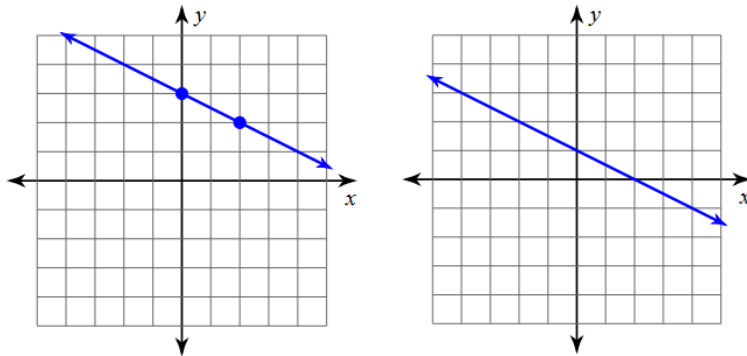
- A. Lines l and g have the same y -intercept
 - B. Lines l and g are parallel
 - C. Lines l and g are perpendicular
-

22) The equation of one line is $y = 9x - 2$.

The equation of a second line is $y = -\frac{1}{9}x + 1$

- A. The two lines are parallel
 - B. The two lines are perpendicular
 - C. The two lines are neither parallel or perpendicular
-

23) Identify the relationship between the slopes of these two lines



- A. parallel
 - B. perpendicular
 - C. neither
-

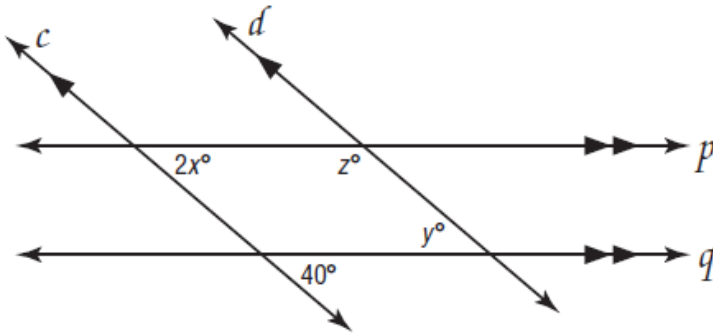
24) What is the relationship between the two lines

$$y = \frac{2}{5}x + 1 \quad \text{and} \quad y = \frac{5}{2}x + 1$$

- A. The two lines are parallel
- B. The two lines are perpendicular
- C. The two lines are neither parallel or perpendicular

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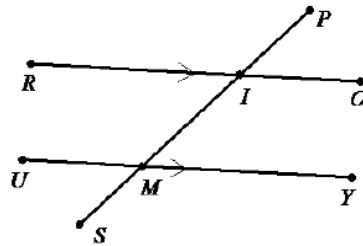
25 Find x , y , and z



- A $x = 10, y = 20, z = 120$
- B $x = 10, y = 40, z = 160$
- C $x = 20, y = 20, z = 120$
- D $x = 20, y = 40, z = 140$

26 Based on the diagram, which theorem or postulate would support the statement $m\angle RIP = m\angle SMY$?

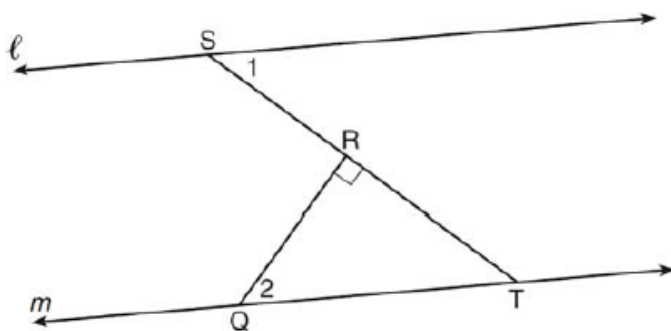
- A. Alternate Exterior Angles Theorem
- B. Alternate Interior Angles Theorem
- C. Consecutive Interior Angles Theorem
- D. Corresponding \angle s Postulate



27 Find the slope of the line $3x + 2y = 6$

- A. $-\frac{3}{2}$
- B. -3
- C. $\frac{2}{3}$
- D. $-\frac{2}{3}$

28 In the diagram below, $\ell \parallel m$ and $\overline{QR} \perp \overline{ST}$ at R .

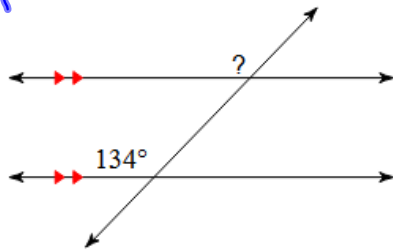


- A. 63
- B. 27
- C. 73
- D. 47

If $m\angle 1 = 63$, find $m\angle 2$.

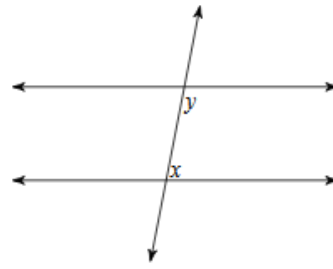
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29



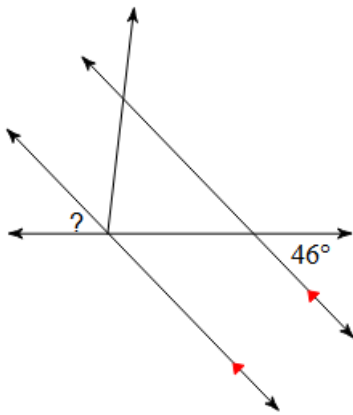
- A) 134° B) 130°
 C) 95° D) 140°

30



- A) alternate interior
 B) corresponding
 C) alternate exterior
 D) same-side interior

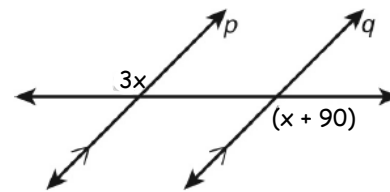
31



- A) 46° B) 60°
 C) 116° D) 39°

32

If lines p and q are parallel, what is the value of x ?



- A 15 C 45
 B 30 D 90

33

Rhys, Savannah, Carson, and I are getting into a huge argument. Before I slam Carson's head against the desk, I take a deep breath and listen to their answers.

The question is what slope is perpendicular to $-Y = x + 1$

Rhys says -1 , Savannah Says $+1$, Carson takes a selfie and then says zero

- a. Savannah is correct b. Rhys is correct
 c. Carson is correct d. No one is correct and I slam Carson