

Math Quiz: 10 Questions for Hight School

1. What is the slope of the line that passes through the points (3, 4) and (5, 8)?

- 1/2
- 2
- 3/2

2. What is the equation of the line that passes through the point (2, 3) and has a slope of -2?

- $y = -2x + 5$
- $y = -2x + 7$
- $y = 2x + 3$

3. What is the midpoint of the line segment with the endpoints (4, 6) and (8, 10)?

- (6, 8)
- (5, 8)
- (6, 9)

4. What is the equation of the circle with center (4, 5) and radius 3?

- $(x - 4)^2 + (y - 5)^2 = 9$
- $(x - 4)^2 + (y - 5)^2 = 16$
- $(x - 4)^2 + (y - 5)^2 = 1$

5. What is the distance between the points (-3, 4) and (6, 4)?

- 9
- 7
- 8

6. What is the slope of a line that passes through the points (3, 4) and (5, 7)?

- 1
- 2
- 3

7. What is the equation of the line that passes through the point (3, 2) with a slope of 4?

- $y = 4x + 2$
- $y = 4x - 2$
- $y = -4x + 2$

8. What is the x-intercept of the line $y = -3x + 6$?

- 2
- 3
- 6

9. What is the value of x in the solution of the system of linear equations below?

$$x + 2y = 8$$

$$3x - 4y = 2$$

- 2
- 2
- 4

10. What is the equation of a circle with a center at the point (3, 4) and a radius of 5 units?

- $(x - 3)^2 + (y - 4)^2 = 25$
- $(x - 3)^2 + (y + 4)^2 = 25$
- $(x + 3)^2 + (y - 4)^2 = 25$

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Right answers

1. What is the slope of the line that passes through the points (3, 4) and (5, 8)?
2
2. What is the equation of the line that passes through the point (2, 3) and has a slope of -2?
 $y = -2x + 5$
3. What is the midpoint of the line segment with the endpoints (4, 6) and (8, 10)?
(6, 8)
4. What is the equation of the circle with center (4, 5) and radius 3?
 $(x - 4)^2 + (y - 5)^2 = 16$
5. What is the distance between the points (-3, 4) and (6, 4)?
8
6. What is the slope of a line that passes through the points (3, 4) and (5, 7)?
2
7. What is the equation of the line that passes through the point (3, 2) with a slope of 4?
 $y = 4x + 2$
8. What is the x-intercept of the line $y = -3x + 6$?
3
9. What is the value of x in the solution of the system of linear equations below?
 $x + 2y = 8$
 $3x - 4y = 2$
2
10. What is the equation of a circle with a center at the point (3, 4) and a radius of 5 units?
 $(x - 3)^2 + (y - 4)^2 = 25$