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Distance, Midpoint, Slope

 \pm is the midpoint of the line segment that joins points (4, -2) and (-2, 5)?

2. The endpoints of \overline{AB} are A(3,-4) and B(7,2). Determine and state the length of \overline{AB} in simplest radical form.

3. What is the slope of a line passing through the points (-2, 1) and (4, -5)?

4. Point M is the midpoint of B. If the coordinates of A are (-3,6) and the coordinates of M are (-5,2), what are the coordinates of B?

Find the value of k so the tree slope of the line joining (5,k) and $(6,k^2)$ is 30.

6. Line segment AB has endpoint A 1 trained at the origin. Line segment AB is longest when the coordinates of B are

- 1) (3,7)
- 2) (2,-8)
- 3) (-6,4)
- 4) (-5,-5)

7. If a line segment has endpoints $A(3x + 5,3)$; the midpoint of $\frac{A}{A}$?	land Physics
the midpoint of \overline{AB} ?	and $B(x-1,-y)$, what are the coordinates of

If the slope of the line joining the points (2,4) and (5,k) is 2, find the value of k.

9. A line segment on the coordinate plane has endpoints (2,4) and (4,y). The midpoint of the segment is point (3,7). What is the value of y?

11. In circle O, a diameter has disjoints (-5,4) and (3,-6). What is the length of the diameter?

12. M is the midpoint of \overline{AB} . the coordinates of A are (-1,5) and the coordinates of M are (3,3), what are the coordinates of B?

13. In Circle O, a diameter as endpoints (-3,2) and (1,0), what is the length of the radius to the nearest tenth?

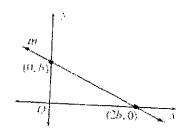
A) 1

D) 0

15. In circle O, diameter \overline{RS} has endpoints R(3a, 2b-1) and S(a-6, 4b+5). Find the coordinates of point O, in terms of a and b. Express your answer in simplest form.

16. Find the value of k, given the points P(2, 3) and Q(k, -1), if PQ has slope,





In the given figure, what is the slope of line m?

- (1), 2
- $(2)^{-\frac{1}{2}}$
- (3) $-\frac{1}{2}$
- (4) -2

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