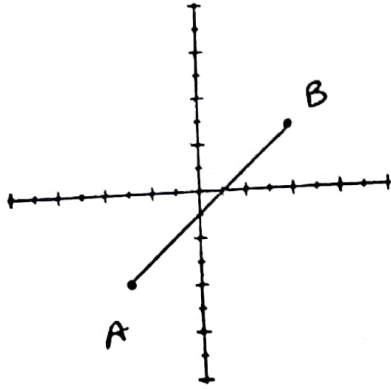


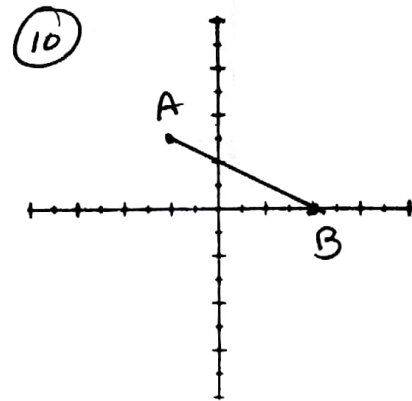
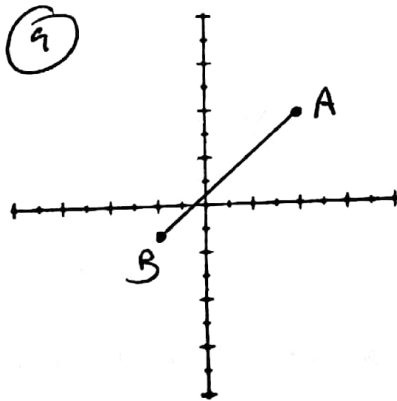
- ① FIND THE MIDPOINT OF THE SEGMENT JOINING THE POINTS $(4, -2)$ AND $(-8, 6)$
- ② FIND THE DISTANCE BETWEEN $(3, -2)$ AND $(6, 4)$ IN SIMPLEST RADICAL FORM.
- ③ WHAT IS THE SLOPE OF THE LINE PASSING THROUGH $(4, 6)$ AND $(-1, -2)$?
- ④ M IS THE MIDPOINT OF \overline{AB} . IF THE COORDINATES OF A ARE $(-2, 3)$ AND THE COORDINATES OF M ARE $(1, 0)$, FIND THE COORDINATES OF B.
- ⑤ THE POINT $(-4, -2)$ LIES ON A CIRCLE. WHAT IS THE LENGTH OF THE RADIUS OF THE CIRCLE IF THE CENTER IS LOCATED AT $(-8, -10)$? EXPRESS ANSWER IN SIMPLEST RADICAL FORM.
- ⑥ FIND THE SLOPE OF A LINE PERPENDICULAR TO $6x + 2y = 24$.

7) FIND THE LENGTH OF \overline{AB} IN SIMPLEST RADICAL FORM.



8) FIND THE RADIUS OF A CIRCLE WHOSE DIAMETER HAS ENDPPOINTS $(-3, -2)$ AND $(7, 8)$. GIVE ANSWER IN SIMPLEST RADICAL FORM.

9) DETERMINE THE SLOPE OF THE LINE THAT IS PERPENDICULAR TO THE LINE SEGMENT.



10) DETERMINE THE SLOPE OF THE LINE THAT IS PARALLEL TO THE LINE SEGMENT.

2)

11) GIVEN $A(-3, 2)$ AND $B(5, 3)$, FIND:

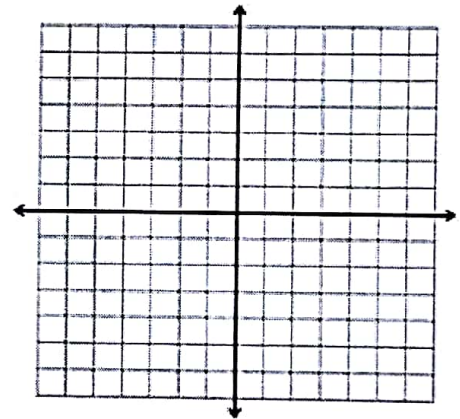
(A) THE MIDPOINT OF \overline{AB} .

(B) THE SLOPE OF \overline{AB} .

(C) THE SLOPE OF ANY LINE PERPENDICULAR TO \overline{AB} .

(D) THE LENGTH OF \overline{AB} TO THE NEAREST 10th.

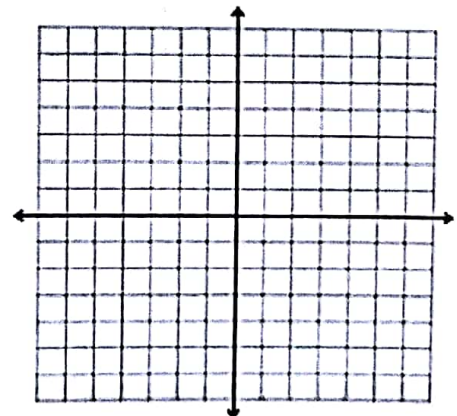
12) GIVEN QUADRILATERAL ABCD WITH VERTICES $A(5, 0)$, $B(3, 5)$, $C(-4, 5)$ AND $D(-1, -3)$, FIND THE PERIMETER TO THE NEAREST 10th.



13) GIVEN $\triangle CAT$ WITH VERTICES $A(0, -2)$, $C(5, 1)$, AND $T(2, 6)$.

(A) FIND THE PERIMETER OF $\triangle CAT$ TO THE NEAREST 10th.

(B) FIND THE AREA TO THE NEAREST 10th.



(14) THE SUM OF 3 CONSECUTIVE INTEGERS IS 36. WHAT IS THE LARGEST OF THE 3 NUMBERS?

(15) 5 TIMES THE SMALLEST OF 3 CONSECUTIVE ODD INTEGERS IS 7 MORE THAN TWICE THE LARGEST. FIND THE LARGEST INTEGER.

(16) THE PRODUCT OF 2 CONSECUTIVE ODD POSITIVE INTEGERS IS 323. WHAT IS THE SUM OF THE 2 INTEGERS?

(17) SOLVE

$$\begin{aligned}x - 2y &= 5 \\ 3x + 2y &= 15\end{aligned}$$

(18) SOLVE USING SUBSTITUTION:

$$\begin{aligned}x &= y + 2 \\ -3x + 2y &= 15\end{aligned}$$

(19)