

D. 116

____5.. Given A(4,-1) and B(7,-5), what is AB?

A. 25

B. 5

- C. √5
- D. 10

Part II: For the question in this part, you must SHOW ALL WORK. The question is worth 4 credits. If only a solution is given with no work, only 1 credit will be given.

11. Given: \overrightarrow{BD} bisects < ABC; \overleftarrow{EBC} . Solve for x and y.



12. Complete the following proof by writing the reason that supports each statement.



Statements	Reasons
\overline{BD} bisects $\measuredangle ABC^{-1}$.	1.
2. $\measuredangle 1 \cong \measuredangle 2$	2.
3. $\measuredangle 3$ is complementary to $\measuredangle 1$ $\measuredangle 4$ is complementary to $\measuredangle 2$	3.
4. $\measuredangle 3 \cong \measuredangle 4$	4.
5. $\measuredangle 4$ and $\measuredangle 5$ are vertical angles	5.
6. $\measuredangle 4 \cong \measuredangle 5$	6.
7. $\measuredangle 3 \cong \measuredangle 5$	7.