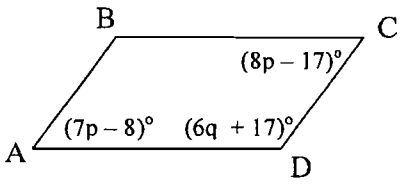
61) What are the values of the variables in parallelogram ABCD?



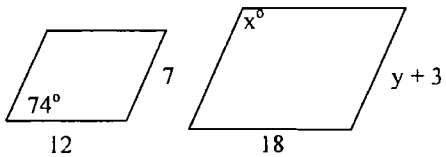
A) p = 8, q = 20 B) p = 11, q = 18 C) p = 9, q = 18

D) p = 10, q = 18 E) p = 9, q = 20

62) The diagonals of a parallelogram must

A) be congruent. B) be parallel. C) be perpendicular.
D) bisect each other. E) be longer than the sides.

63) The two parallelograms shown are similar. What are the values of x and y?

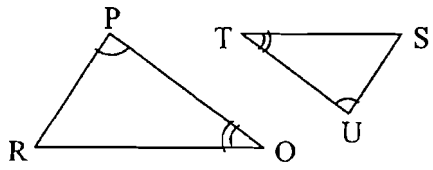


A) x = 74°, y = $\frac{15}{2}$ B) x = 106°, y = 10.5

C) x = 74°, y = 10.5 D) x = 106°, y = 10

E) x = 106°, y = $\frac{15}{2}$

64) The triangles shown are similar. Which of the following is *not* a correct statement?

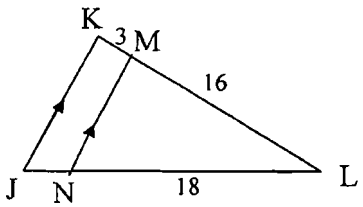


A) $\triangle PQR \sim \triangle UTS$ B) $\frac{PR}{US} = \frac{PQ}{UT}$

C) $\frac{TU}{QR} = \frac{TS}{QP}$ D) $\frac{RQ}{ST} = \frac{RP}{SU}$

E) $\triangle QPR \sim \triangle TUS$

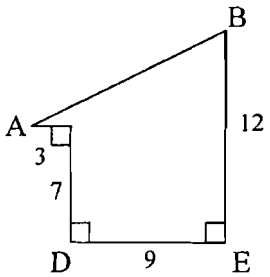
65) What is JN?



A) 3 B) $\frac{27}{8}$ C) 3.5

D) 4 E) 5

66) Find the length of segment AB in the figure below.



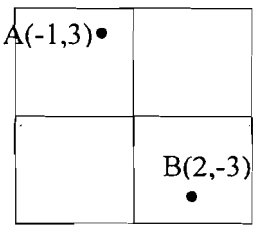
A) 8 B) 13

C) 14 D) 15

67) What is the distance between (-3, -2) and (-4, 3)?

A) $\sqrt{74}$ B) $\sqrt{2}$ C) $\sqrt{34}$ D) $\sqrt{26}$ E) $\sqrt{8}$

68) What is the distance between points A and B?



A) $3\sqrt{5}$ B) 3 C) $\sqrt{10}$

D) $3\sqrt{10}$ E) $\sqrt{5}$

69) Use the graph from above to find the midpoint between points A and B.

A) $(0, \frac{1}{2})$ B) $(-\frac{3}{4}, -3)$ C) $(-\frac{1}{2}, 0)$ D) $(\frac{1}{2}, 1)$ E) $(\frac{1}{2}, 0)$

70) The vertices of a right triangle are (5, -2), (0, 6) and (0, -2). What is the length of the hypotenuse?

A) 8 B) 4 C) $\sqrt{89}$ D) $\sqrt{41}$ E) 5