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DISTANCE FORMULA

GRADE 9

1. The distance between A (4,4) and B (0,4) is _____units.

a) 2 units
b) 3 units
c) -5 units
d) 4 units

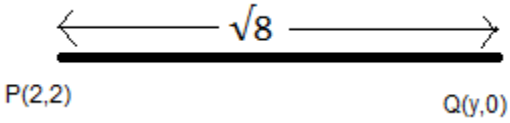
2. Distance between points (2, -6) and (-3,6) is _____units.

a) 13
b) 17
c) 12
d) 11

3. Distance between A ($\sqrt{5}$, 7) and origin is _____units

a) $2\sqrt{3}$
b) $3\sqrt{6}$
c)2
d)3

4. Distance between the points P (2,2) and Q (y,0) is $\sqrt{8}$ units. Then y =_____



a) 6
b) 2
c) 4
d)8

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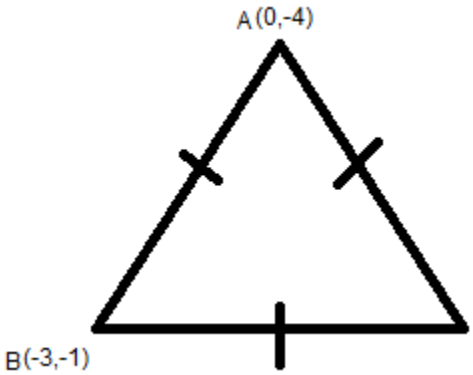
5. P (3,2) is equidistant from points M (2,0) and N (4, y). The value of y is_____

a) 5
b) 4
c) 9
d) 8

6. If A = (2, -3) and B = (5,4), then AB is _____units

a) 46
b) 64
c) 58
d) 96

7. An equilateral triangle has the vertices (0, -4) and (-3, -1). The length of its side is _____units.



a) 3 √2
b) 2√3
c) 5√3
d)3√7

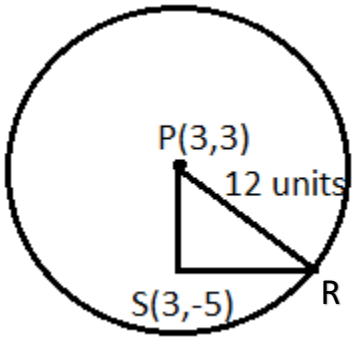
8. A= (1,3) and B=(x-1,0). If BA=5 units, x=_____

a) -3,5
b) 4, -7
c)-2,6
d)-2, -6

9. Line PQ is 10 units in length. P= (2,3). If the abscissa of Q is 10, then the co-ordinates of Q are _____

a) (9, -3)
b) (-3,9)
c) (8, -4)
d) (0, -3)

10. In a circle of center P (3,3), a perpendicular PS is drawn to RS, where S = (3, -5). The radius of the circle is 12 units. SR =_____units



a) 4
b) $4\sqrt{5}$
c) $5\sqrt{3}$
d) $6\sqrt{5}$