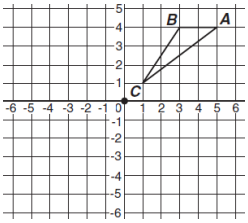
Name: _____ Date: _____

EOC MULTIPLE CHOICE PRACTICE

1) If triangle ABC is rotated 180 degrees, what are the coordinates of A'?



a) (-5, -4) b) (-5, 4)

c) (-4, 5) d) (-4, -5)

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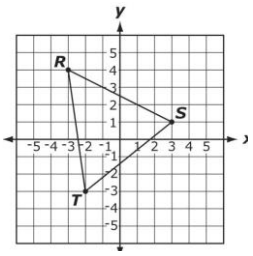
2) What are the coordinates of R' after triangle RST is rotated 90 degrees clockwise?



a) (-3, -4) b) (-4, -3)

c) (3, 4) d) (4, 3)

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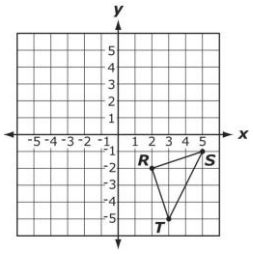
3) Triangle RST is reflected across the y-axis and then, translated 1 unit up to create triangle R'S'T. What are the coordinates of S'?



a) (-5, -2) b) (-5, 0)

c) (-4, -1) d) (-4, 0)

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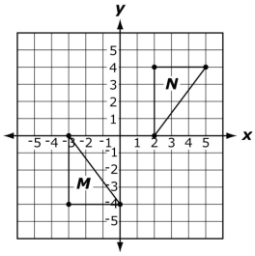
4) Which statement describes the transformation that would map triangle M to triangle N on this grid?



a) (x, y) → (-x + 5, -y) b) (x, y) → (-x + 5, y)

c) (x, y) → (x + 5, -y) d) (x, y) → (x + 5, y)

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5) Which expression describes the translation of a point from (-3, 4) to (4, -1)?

a) 7 units left, 5 units up b) 7 units right, 5 units up

c) 7 units left, 5 units down d) 7 units right, 5 units down

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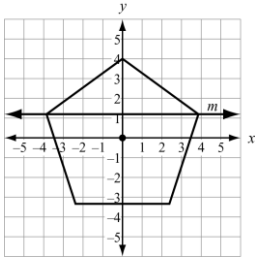
6) A regular pentagon is centered about the origin and has a vertex at (0, 4). Which transformation maps the pentagon to itself?

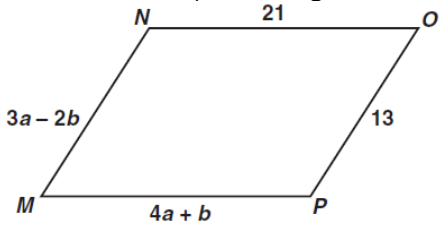


a) reflection across line m
b) reflection about the x-axis
c) a clockwise rotation 100° about the origin
d) a clockwise rotation 144° about the origin

7) Given: TRAP is an isosceles trapezoid with diagonals $\overline{RP}$ and $\overline{TA}$. Which of the following must be true?

a) $\overline{RP} \perp \overline{TA}$ b) $\overline{RP} \parallel \overline{TA}$ c) $\overline{RP} \cong \overline{TA}$ d) $\overline{RP}$ bisects $\overline{TA}$

8) What values of a and b make quadrilateral MNOP a parallelogram?

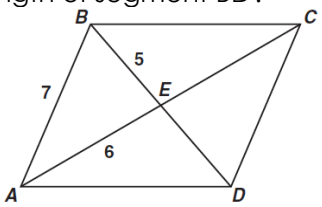


a) a = 1, b = 5 b) a = 5, b = 1 c) a = 11/7, b = 34/7 d) a = 34/7, b = 11/7

9) Quadrilateral ABCD is a parallelogram. If adjacent angles are congruent, which statement must be true?

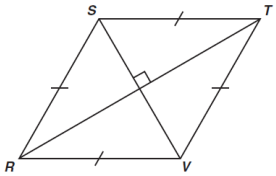
a) ABCD is a square b) ABCD is a rhombus c) ABCD is a rectangle d) ABCD is isosceles

10) If ABCD is a parallelogram, what is the length of segment BD?



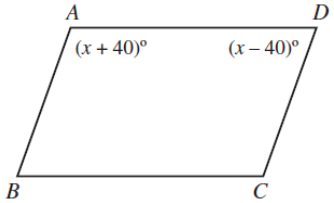
a) 10 b) 11 c) 12 d) 14

11) What is the area, in square centimeters, of rhombus RSTV if RT = 16 cm and SV = 12 cm?



a) 40 cm.^{2} b) 48 cm.^{2} c) 96 cm.^{2} d) 192 cm.^{2}

12) In the figure below, $\overline{AB} \parallel \overline{CD}$. What is the value of x?



a) 40 b) 50 c) 80 d) 90