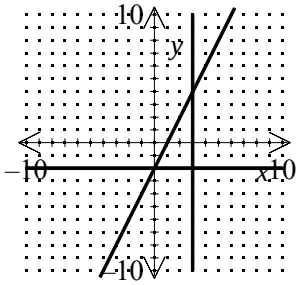
NAME:_____

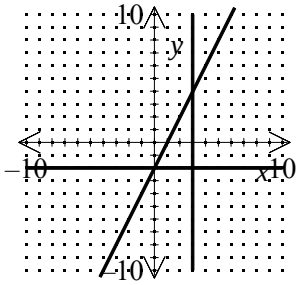
1. Graph each line and find the area of the enclosed triangle.
$y = 2x - 2$, $x = 3$, $y = -2$

[A]



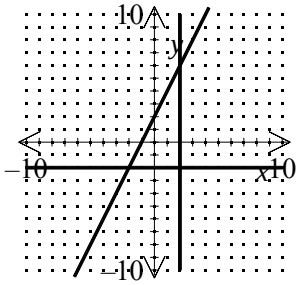
area = 4.5

[B]



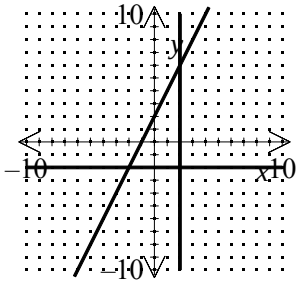
area = 9

[C]



area = 10

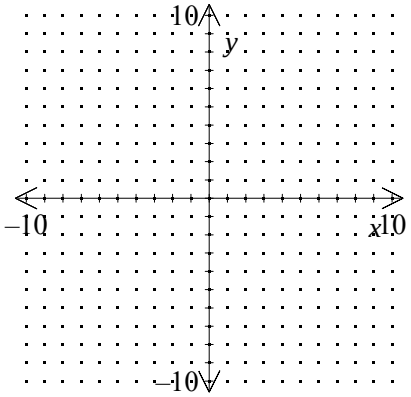
[D]



area = 18

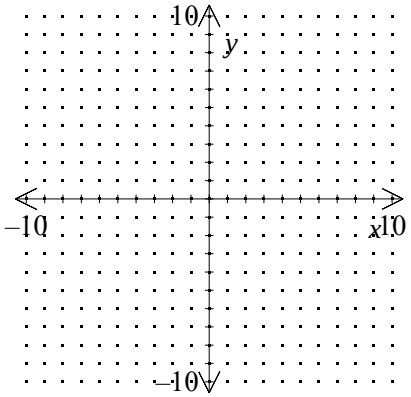
[1] _____

2. Graph each line and find the area of the enclosed triangle.
$y = 2x - 3$, $x = 4$, $y = -3$



[2] _____

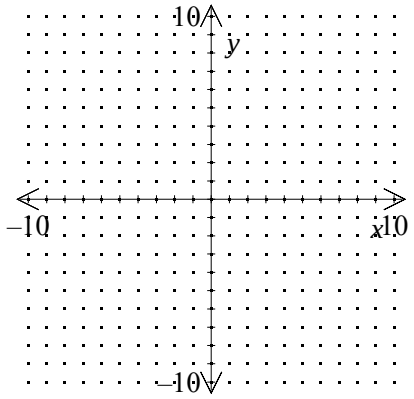
3. Graph each line and find the area of the enclosed triangle.
$y = -2x - 1$, $x = 1$, $y = 3$



[3] _____

NAME:_____

4. Graph each line and find the area of the enclosed triangle.
$y = x - 3$, $x = 6$, $y = -4$



[4] _____

5. Points $A(3, -2)$, $B(1, -2)$, and $C(1, 2)$ are the vertices of a right triangle. Using the formula $A = \frac{1}{2}bh$, where b is the base and h is the height of the triangle, find the area of ΔABC.

[A] 4 [B] 8 [C] 64 [D] 2 [E] 16

[5] _____

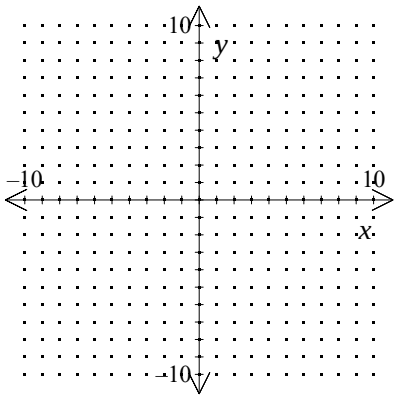
6. ΔABC has vertices at $A(0, 0)$, $B(4, 4)$, and $C(10, 0)$. Find the area of the triangle in two different ways.

[6] _____

7. Graph $ABCD$ and find its area: $A(-2, -1)$, $B(1, 3)$, $C(5, 0)$, and $D(2, -4)$.

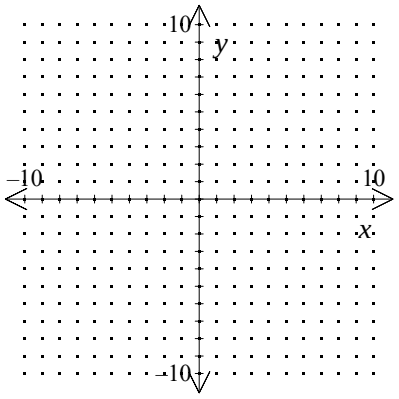
[7] _____

8. Graph rectangle $ABCD$ and find its area.
$A(-6, 1)$, $B(-6, -7)$, $C(4, -7)$, $D(4, 1)$



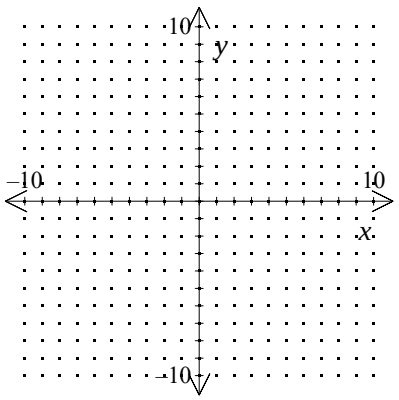
[8] _____

9. Graph rectangle $ABCD$ and find its area.
$A(2, -9)$, $B(2, 5)$, $C(-8, 5)$, $D(-8, -9)$



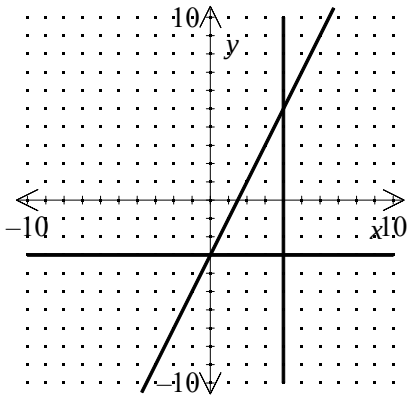
[9] _____

10. Graph rectangle $ABCD$ and find its area.
$A(-9, 3)$, $B(-9, -4)$, $C(-5, -4)$, $D(-5, 3)$



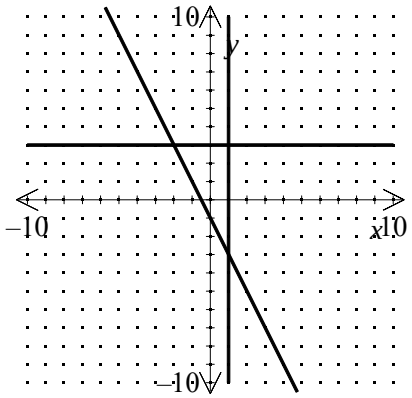
[10] _____

[1] B



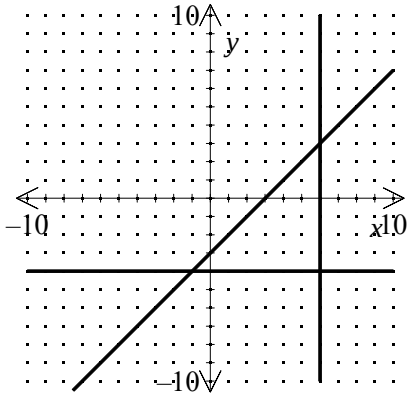
area =

[2] 16



area = 9

[3]



area =

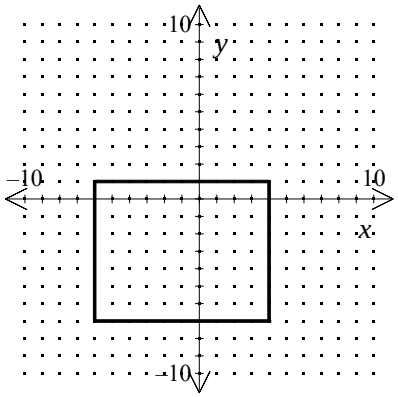
[4] 24.50

[5] A

Use the area of a triangle given SAS or find that the base is 10 and the height is 4; the area

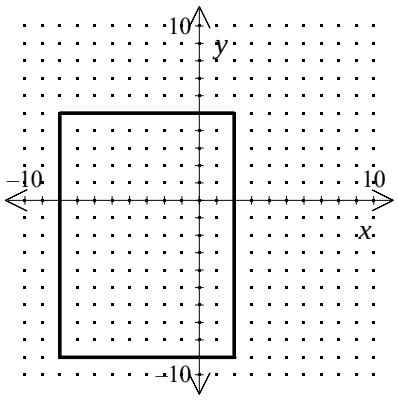
[6] is 20 units^2.

[7] 25 square units



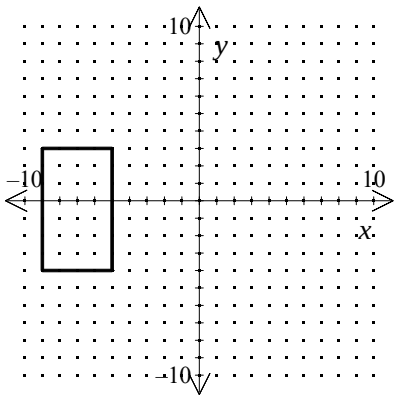
area = 80

[8]



area = 140

[9]



area = 28

[10]