The equation of a line is 3y + 2x = 12. What is the slope of the line perpendicular to the given line?

The lines whose equations are 2x + 3y = 4 and y = mx + 6 will be perpendicular when m is

Which equation represents a line that is perpendicular to the line represented by 2x - y = 7?

Determine if the two lines 2x - 9y = -18and $y = \frac{2}{9}x - 3$ are parallel, perpendicular, or neither.

Which equation represents a line that is parallel to the line whose equation is 2x + 3y = 12?

- 1) 6y 4x = 2
- 2) 6y + 4x = 2
- 3) 4x 6y = 2
- 4) 6x + 4y = -2

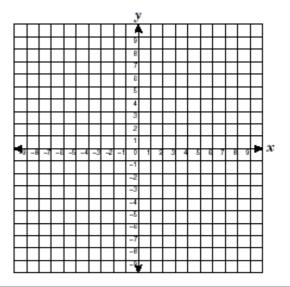
The equation of a line is y = x + 5. What is an equation of the line that is perpendicular to the given line and that passes through the point (-2, 3)?

Write the standard form of the equation of the line passing through the point (1, 5) and perpendicular to the line 4x - 7y = -28.

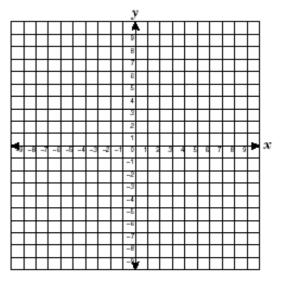
- [A] 7x+4y = 27 [B] -7x-4y = 27
- [C] 4x+7y = 39 [D] 4x-7y = -39

Give the slope-intercept form of the equation of the line that is parallel to 8x + 5y = -7 and contains (5, 3).

The line 3x - 4y = 8 is dilated by a scale factor of 1.5 centered at the origin. Write the equation of the line after the dilation

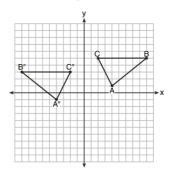


The line x - 2y = 4 is dilated by a scale factor of 2 centered at point (2,1). Write the equation of the line after the dilation



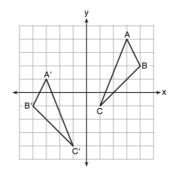
Level 1 Review

The graph below shows $\triangle ABC$ and its image, $\triangle A''B''C''.$



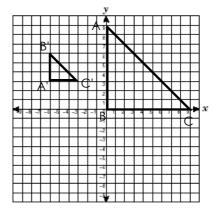
Describe a sequence of rigid motions which would map $\triangle ABC$ onto $\triangle A''B''C''.$

As graphed on the set of axes below, $\triangle A'B'C'$ is the image of $\triangle ABC$ after a sequence of transformations.

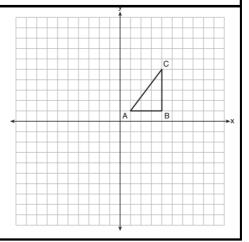


Is $\triangle A'B'C'$ congruent to $\triangle ABC$? Use the properties of rigid motion to explain your answer.

Describe a transformation that maps ABC outo A'B'C'



In the diagram below, $\triangle ABC$ has coordinates A(1,1), B(4,1), and C(4,5). Graph and label $\triangle A''B''C''$, the image of $\triangle ABC$ after the translation five units to the right and two units up followed by the reflection over the line y=0.



Level 2 Review

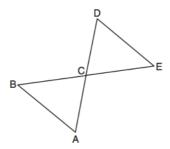
Given: \overline{BE} and \overline{AD} intersect at point C

 $\overline{BC}\cong \overline{EC}$

 $\overline{AC}\cong \overline{DC}$

 \overline{AB} and \overline{DE} are drawn

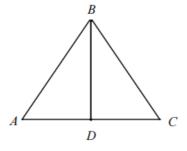
Prove: $\triangle ABC \cong \triangle DEC$



Given: \overline{BD} is the median to \overline{AC} ,

 $\overline{AB} \cong \overline{BC}$

Prove: $\angle CBD \cong \angle ABD$



Given: \overline{AD} bisects $\angle BAC$

 \overline{AD} is an altitude

Prove: $\triangle ABC \cong \triangle ADC$

