

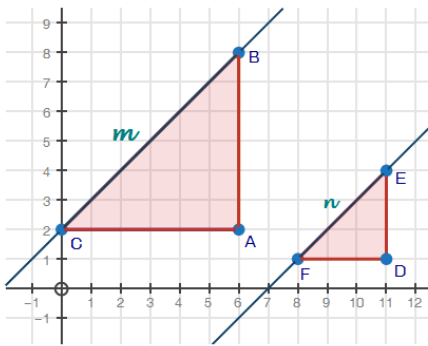
Module 4 Review Toolbox

*Module 4 Help sheet: https://bit.ly/V22_Mod4HelpSheet

Question/Topic:	Room to work & Video:																								
<p>Key Words:</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">Parallel</td> <td style="width: 50%;">Perpendicular</td> </tr> <tr> <td>Slope formula</td> <td>Distance Formula</td> </tr> <tr> <td>Midpoint formula</td> <td>Equilateral</td> </tr> <tr> <td>Isosceles</td> <td>Right</td> </tr> <tr> <td>Scalene</td> <td>Quadrilateral</td> </tr> <tr> <td>Parallelogram</td> <td>Kite</td> </tr> <tr> <td>Rectangle</td> <td>Rhombus</td> </tr> <tr> <td>Square</td> <td>Trapezoid</td> </tr> <tr> <td>Slope-intercept Form</td> <td>Point-slope form</td> </tr> <tr> <td>Standard form</td> <td>Area</td> </tr> <tr> <td>Perimeter</td> <td>Altitude</td> </tr> <tr> <td>Pythagorean Theorem</td> <td></td> </tr> </table>	Parallel	Perpendicular	Slope formula	Distance Formula	Midpoint formula	Equilateral	Isosceles	Right	Scalene	Quadrilateral	Parallelogram	Kite	Rectangle	Rhombus	Square	Trapezoid	Slope-intercept Form	Point-slope form	Standard form	Area	Perimeter	Altitude	Pythagorean Theorem		<p style="text-align: center;">*Please be sure you know and understand the meaning of each word, formula, or theorem. These can all be found throughout the toolbox note guides for Module 4.</p>
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<p>Question 1:</p> <p>Timmy and Josh are working together to determine if quadrilateral CDEF with coordinates C(2, 3), D(1, 2), E(4, 1), and F(5, 3) has perpendicular sides.</p> <p>Timmy sets up the following equations:</p> $m_{CD} = \frac{2-3}{1-2} \quad m_{DE} = \frac{1-2}{4-1}$ <p>Josh sets up the following equations:</p> $m_{CD} = \frac{2-3}{1-2} \quad m_{EF} = \frac{3-1}{5-4}$ <p>Who is on the right track?</p>	<p>Video: Mod4Review_Question1</p>																								
<p>Question 2:</p> <p>Segment AB falls on line $6x + 3y = 9$. Segment CD falls on line $4x + 2y = 8$. Are segments AB and CD perpendicular, parallel, or neither?</p>	<p>Video: V22_Mod4Review_Q2</p>																								

Question 3:

Triangle ABC is similar to triangle DEF. Using the image below, write the equation, in slope-intercept form, of the side of the triangle DEF that is parallel to BC.



Video: [Geo402-video11](#)

Question 4:

An engineer is rerouting traffic in order to work on a stretch of road. The equation of the path of the old route is $y = \frac{2}{5}(x - 4)$. What should the equation of the new route be if it is perpendicular to the old route and will go through point (S, T) ?

Video: [Mod4Review_Question4](#)

Question 5:

Triangle DEF has vertices located at $D(0, 3)$, $E(3, 3)$, and $F(5, -1)$.

Part A: Find the length of each side.

Part B: Find the slope of each side.

Part C: Classify the triangle and explain.

Video: [Geo401-video13](#)

Question 6:

Write the equation of a line in standard form that has x-intercept $(-A, 0)$ and y-intercept $(0, -B)$.

Video: [Mod4Review_Question6](#)

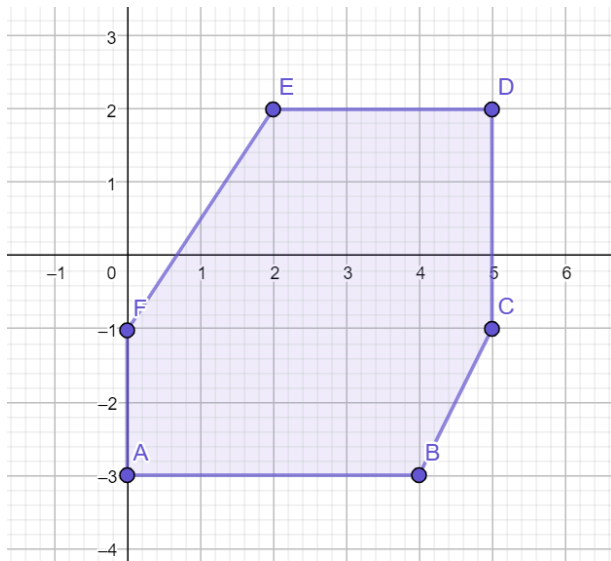
Question 7:

A point F is on segment AZ with endpoints A(1, -3) and Z(5, 1). F partitions the segment in a 3:1 ratio. What point is F?

Video: [Geo403-video11](#)

Question 8:

Find the area of the following shape.



Video: [Geo403-video12](#)

***Geometry EOC Review:**

Find the weighted average of the numbers -1 and 5 with a weight of $\frac{1}{4}$ on the first number and $\frac{3}{4}$ on the second number.

Note- This same question could also be worded like this on the EOC: What point on the number line is $\frac{3}{4}$ the way from the point -1 to the point 5?

Video: [Mod4Review_EOC](#)

****No Honors lesson in Module 4****