

Good morning: assessments are not yet graded 🤖 will do asap!

Need to finish? You'll have about 15 mins to get more done

Already finished? Work on coordinate review handout being passed out soon (finish it for hw)

Reminders:

Retakes available in DS; tutoring today 4-5pm

EOC: end of April

3 parts

all on computer

Must have all formulas  
memorized!  
(Quizlet)

Subpart 1 (No Calculator)	Subpart 2 (Calculator)	Subpart 3 (Calculator)	Summary
<ul style="list-style-type: none"><li>• 35 Minutes</li><li>• 13-18 Items</li></ul>	<ul style="list-style-type: none"><li>• 50 Minutes</li><li>• 11-25 Items</li></ul>	<ul style="list-style-type: none"><li>• 60 Minutes</li><li>• 11-20 Items</li></ul>	<ul style="list-style-type: none"><li>• Total Time: 145 Minutes</li><li>• Total Items: 45-63</li></ul>

**Table 6. Score Point Distribution by Sub-Score Category for Geometry**

Assessment	Congruence	<u>Triangles and Circles</u>	Geometric Proofs and Solving Design Problems	Two and Three Dimensional Geometry
Geometry	24-26%	36-38%	11-16%	16-20%

transf.

11 Δ  
2 Δ  
trig

The TNReady mathematics assessments may consist of the following item types:

- Multiple choice
- Multiple select
- Text entry
- Graphing
- Matching table



-	-	-
✓	-	-
-	-	✓
-	-	-

Included in the mathematics assessment for EOC are Two-Part Items.

- **Two-part items:** These are items with two parts, A and B, worth a total of two points.

A series of consecutive items may also share a stimulus.

- As many as 6 consecutive items may share a common stimulus or context.
- These items are independent of one another as with other single items on the assessment and worth 1 point each.

# End of Course Testing BOOTCAMP



- take good notes
- work efficiently
- no handout provided...sketch quickly

Distance

$$d = \sqrt{(\Delta x)^2 + (\Delta y)^2}$$

Midpoint

Average  $(\text{Avg. } x, \text{Avg. } y)$

Equation of a Line

$y - y_1 = m(x - x_1)$

$(x_1, y_1)$  lies on line

Slope

$$m = \frac{\Delta y}{\Delta x}$$

Perpendicular Slopes:

$$a \perp -\frac{b}{a}$$

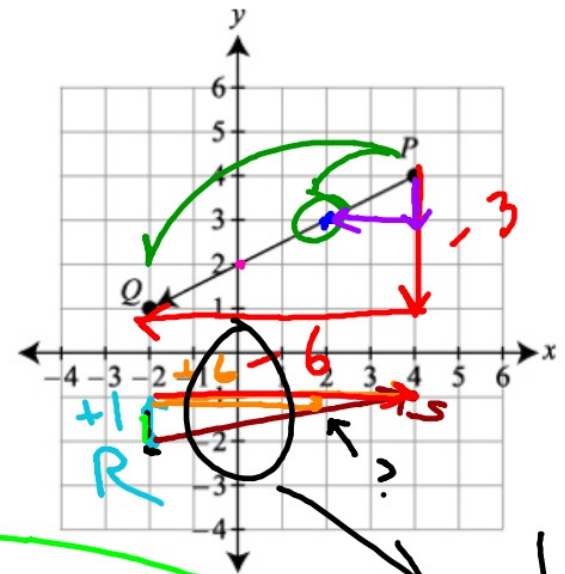
~~$y = mx + b$~~

Partitioning a Segment

1. Directed line segment (vector)  $\overrightarrow{PQ}$  is shown here. What are the coordinates of the point  $\frac{1}{3}$  of the way from  $P(4,4)$  to  $Q(-2,1)$ ?

$(2, 3)$

2. ~~On the graph here~~, place the point that is  $\frac{2}{3}$  of the way from R to S if  $\overrightarrow{RS}$  has endpoints  $R(-2, -2)$  and  $S(4, -1)$ .



y:  $(+1) = \frac{2}{3}$

x:  $(+6) = 4$

$(2, -1\frac{1}{3})$

$\frac{2}{3}$

①

Find the equation of a line passing through  $(1, -4)$  parallel to one passing through  $(3, 2)$  and  $(-1, 5)$

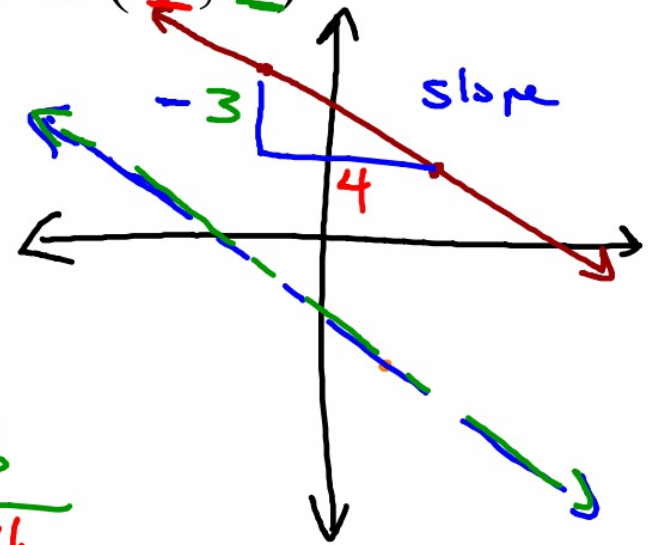
$$y - y_1 = m(x - x_1)$$

Point on line

slope

$$y + 4 = -\frac{3}{4}(x - 1)$$

$$m = -\frac{3}{4}$$





②

Write the equation of a line that passes through  $(0, -2)$  and is perpendicular to  $3x + 2y = 12$ .

$(0, -2)$   
 $x_1, y_1$

$$y - y_1 = m(x - x_1)$$

$$y + 2 = \frac{2}{3} (x - 0)$$

$\left[ \frac{2}{3} \right]$  to other line

$$y + 2 = \frac{2}{3} x$$

$$y = \frac{2}{3} x - 2$$

need the slope  
slope  $\neq 3$

Solve for y:

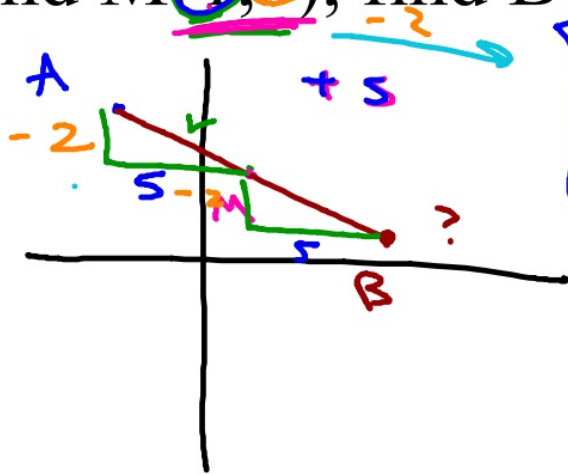
$$2y = -3x + 12$$

$$y = \frac{-3}{2} x + 6$$

$\frac{-3}{2} \rightarrow + \frac{2}{3}$

③

If M is the midpoint of  $\overline{AB}$  and A(-4, 5) and M(1, 3), find B's coordinates.



$$(6, 1)$$

$$(1, 3)$$

$$= \left( \text{Avg } x\text{'s}, \text{Avg } y\text{'s} \right)$$
$$= \left( \frac{-4 + x}{2}, \frac{5 + y}{2} \right)$$

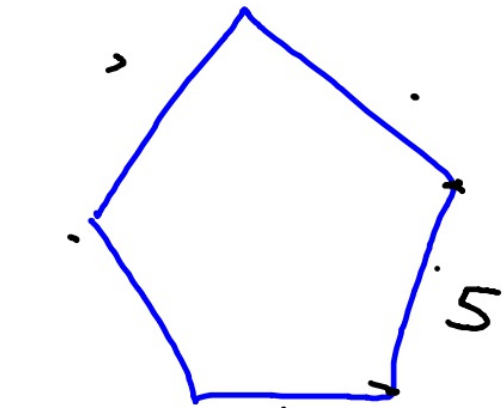
What is the perimeter of a regular pentagon that has one side with endpoints (2,3) and (-1,-1)?

distance?

$$d = \sqrt{(\Delta x)^2 + (\Delta y)^2}$$

$$\sqrt{9 + 16}$$

$$\sqrt{25} = 5$$



25

# Linear Equations

$$Ax + By = C$$

Standard Form

$$y = mx + b$$

Slope - intercept

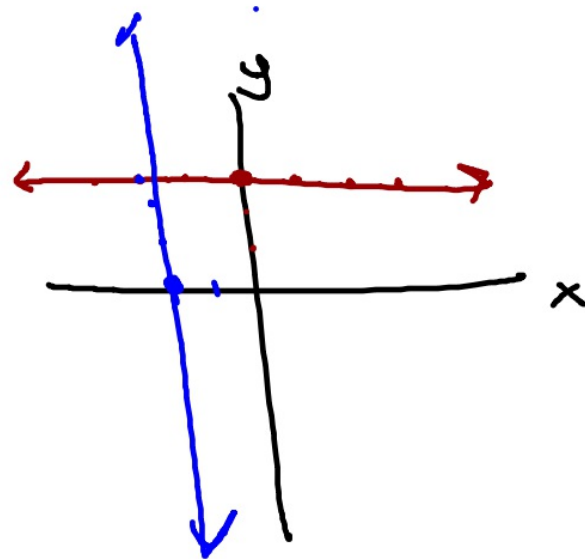
$$y = c \text{ (H) } \text{ ex/}$$

$$x = c \text{ (V)}$$

$$y = 3$$

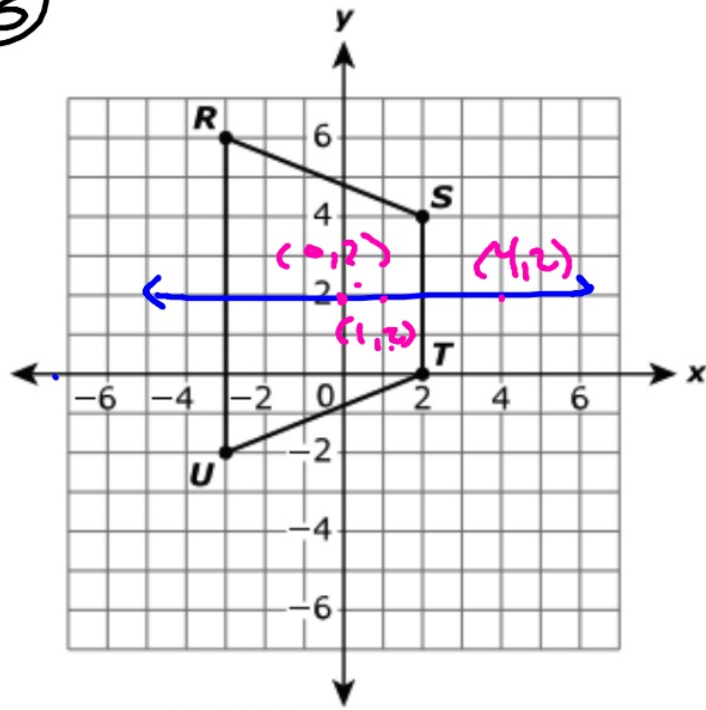
$$x = -2$$

(c is a constant)



Trapezoid  $RSTU$  is shown.

5



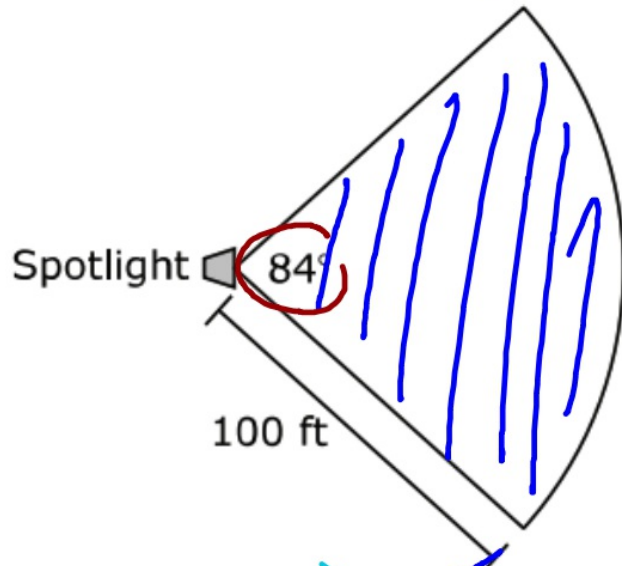
$$y = 2$$

Write the equation for the line that would map the trapezoid onto itself.

line of symmetry

⑥

A spotlight has a beam that travels 100 feet and covers an area intercepted by an  $84^\circ$  angle, as shown.



$$\begin{aligned} A_c &= \pi \cdot r^2 \\ &= \pi (100)^2 \\ &= 31415.9 \text{ ft}^2 \end{aligned}$$

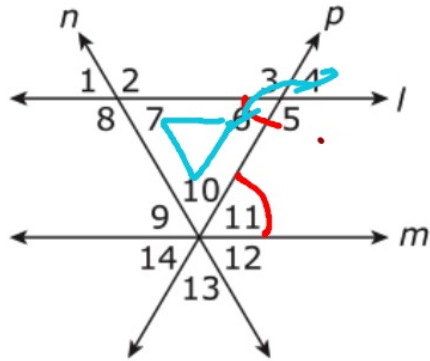
$$\frac{84}{360} \approx 0.233^x$$

To the nearest square foot, what area does the spotlight cover?

$$\approx 7320 \text{ sq. ft}$$

7

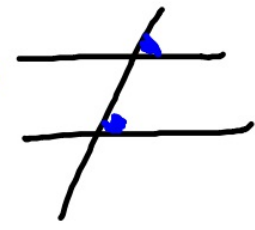
In the diagram shown, line  $l$  is parallel to line  $m$ , and lines  $n$  and  $p$  intersect at a point on line  $m$ .



Mark the phrase or value that **best** completes each statement shown.

Angle 6 is congruent to angle 11 because they are

- vertical angles
- alternate interior angles
- corresponding angles



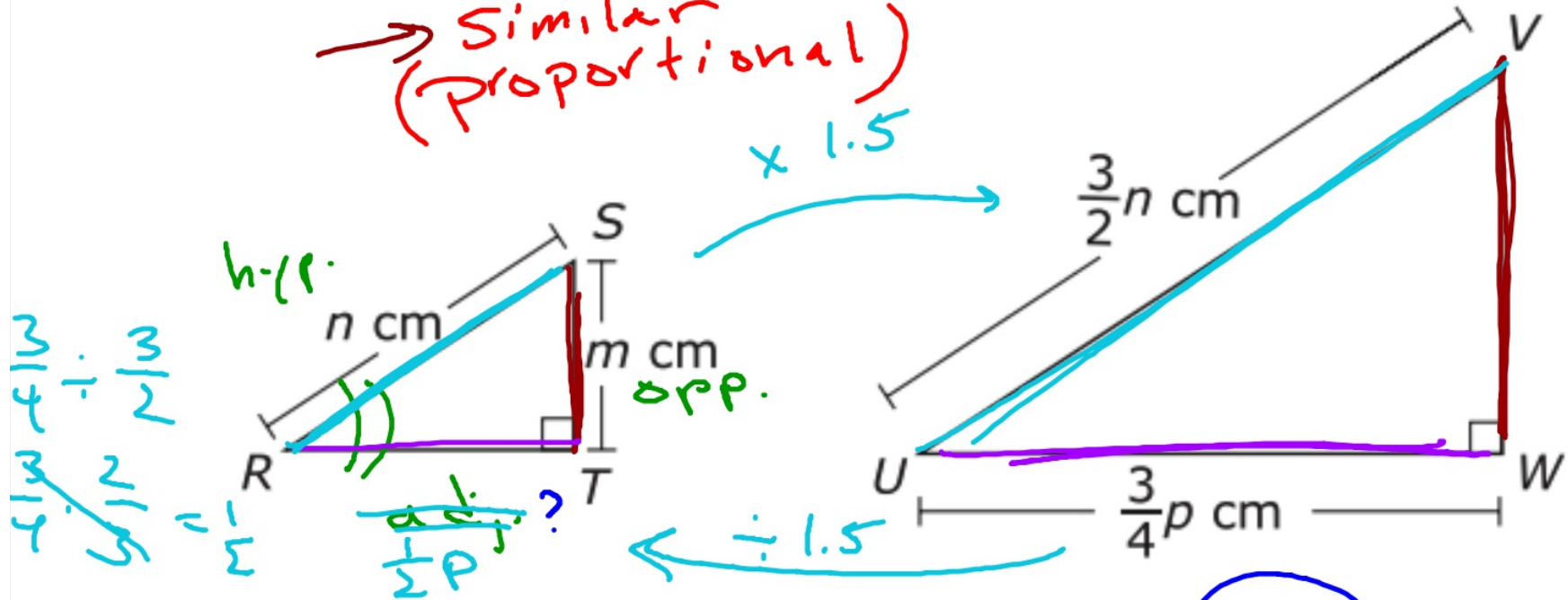
The sum of the measures of angles 4, 7, and

- 2
- 5
- 10

is equal to  $180^\circ$ .

In the figure shown,  $\triangle RST \sim \triangle UVW$ .

→ Similar  
(Proportional)



Write an expression in terms of  $m$  and  $p$  that represents  $\tan(R)$ .

Enter your answer in the space provided.

SOH CAH TOA

$$\frac{m}{\frac{3}{4}p} \left( \frac{opp}{adj.} \right)$$



HW

finish handout #1-7

Answers

or [mgeo.weebly.com](http://mgeo.weebly.com)

---