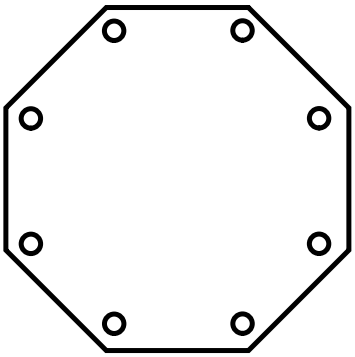
Course Review #1

Please try all questions, before watching the video solutions. The questions are available in pdf format on my website.

Stop and pause the video as required, these are solutions, not lessons, so I will be going a little faster than normal.

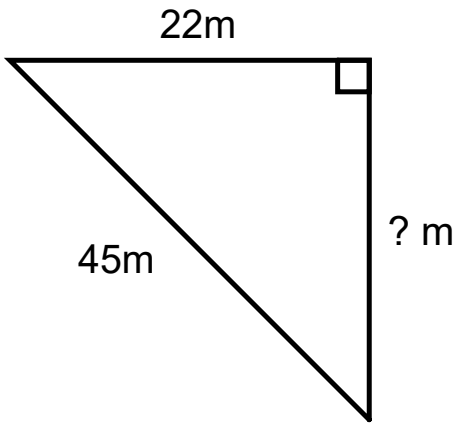
Find the slopes that are (i) parallel and (ii)perpendicular to m = -5

The sum of the interior angles for the following is:



Find the equation of the line that passes through (3, 4) and (-5, -12)

Find the missing side length.



Simplify

$$\frac{(3a^2)(4a^5)}{6a^4}$$

On two different service calls, Jim was paid $65 for 3 hours of work, and $95 for 5 hours of work.

(i) What is Jim's hourly rate of pay?

(ii) Is the relationship direct or partial?

(iii) Does Jim receive a flat fee for his services? Why or why not?

(iv) What would the equation that models Jim's pay look like

Simplify

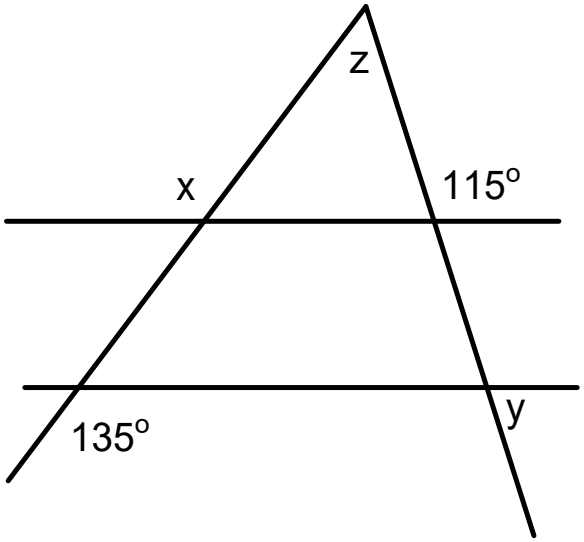
$3(x^2 +4x - 8) - 4(x^2 -2x + 1)$

Evaluate

$$\left(\frac{1}{2}\right)^3+\left(\frac{1}{2}\right)^2$$

Simplify Numerically:

Find the missing angles



Is the following relationship linear or non-linear?

X	Y
1	3
2	6
4	12
5	15
7	21
9	27

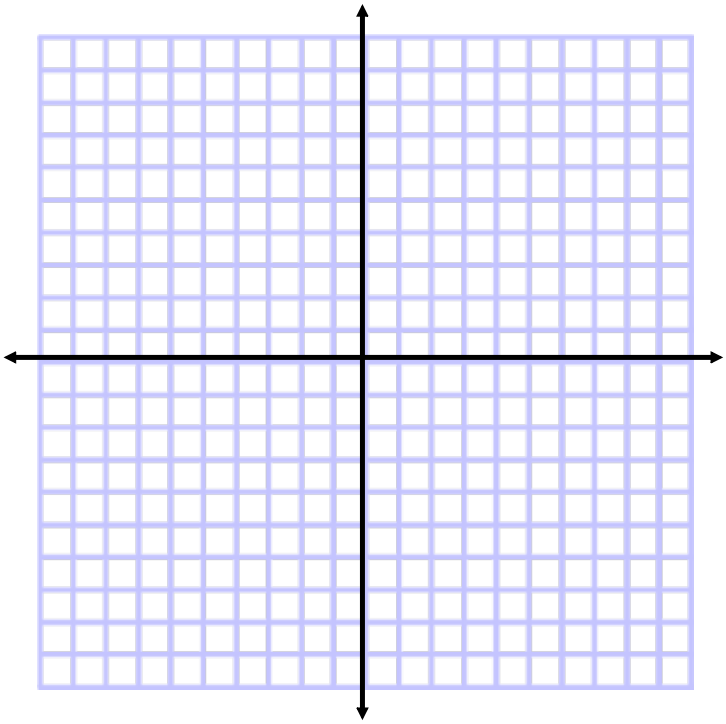
Graph the following:

(a) y = 5x

(b) y = -3x + 4

(c) x = -8

(d) y = -4



Is the following relationship linear or non-linear?

$$y = \frac{3}{4}x^2 - 9$$