

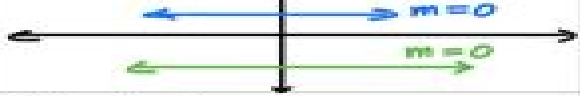
### Point Slope Form

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

$(x_1, y_1)$  = given point  
 $m$  = slope

What does the equation look like if the slope,  $m = 0$ ?

$m = 0 \Rightarrow$  ZERO SLOPE, ZERO INCLINE ON TREADMILL



### Midpoint Formula

Midpoint =

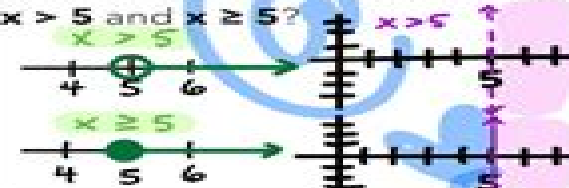
$$\left( \frac{x_1 + x_2}{2}, \frac{y_1 + y_2}{2} \right)$$

How do the slopes of perpendicular lines compare?

OPPOSITE SIGN  
 RECIPROCAL

$$\frac{2}{3} \rightarrow -\frac{3}{2} \quad -3 \rightarrow +\frac{1}{3}$$

What is the difference between  $x > 5$  and  $x \geq 5$ ?



How do you evaluate square roots?

Divide out a perfect square

$$\begin{aligned} \sqrt{45} &= \sqrt{9 \cdot 5} = 3\sqrt{5} \\ \sqrt{50} &= \sqrt{25 \cdot 2} = 5\sqrt{2} \\ \sqrt{20} &= \sqrt{4 \cdot 5} = 2\sqrt{5} \\ \sqrt{98} &= \sqrt{49 \cdot 2} = 7\sqrt{2} \end{aligned}$$

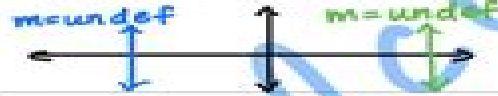
### Slope Intercept Form

$$y = mx + b$$

$m$  = slope  
 $b$  = y-intercept

What does the equation look like if the slope is undefined?

undefined slope  
 = IMPOSSIBLE ON TREADMILL



### Distance Formula

$$d = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$$

Parallel lines have the same:

slope

$$\begin{aligned} \frac{2}{3} &\rightarrow \frac{2}{3} & y &= \frac{2}{3}x + 6 \\ -3 &\rightarrow -3 & y &= \frac{2}{3}x - 1 \end{aligned}$$

Acute, Right, Obtuse values?



What is a perfect square?

any number that has a perfect SQUARE ROOT

4  
 9  
 16  
 25  
 36  
 49  
 64  
 81 etc

### Quadratic Formula

$$ax^2 + bx + c$$

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

Slope Formula  $m = ?$

$m = \frac{\text{rise}}{\text{run}}$

**m = slope**

### Pythagorean Theorem

$$a^2 + b^2 = c^2$$

Simple Interest Formula

$$I = Prt$$

Interest  
 Principle - starting amount  
 rate (as decimal, 45% = 0.45)  
 time

Scalene, Isosceles, Equilateral triangles look like:



How do you convert a number to scientific notation?

$$\begin{aligned} 649000 &\rightarrow 6.49 \times 10^5 \\ 0.00237 &\rightarrow 2.37 \times 10^{-3} \end{aligned}$$

move the decimal so there is only one digit in front of it

# Pre Algebra Reference Guide

**R Sanford**



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