

MEETING X

GRAPHICS & MATH

MATH REVIEW (1 OF 2)

//Operators:

+ Addition

- Subtraction

* Multiplication

/ Division

% Modulos (remainder)

() Parentheses

//Examples:

```
var z = x + y;
```

```
var w = x * y;
```

//Increment:

```
x++;
```

//Decrement:

```
x--;
```

MATH REVIEW (2 OF 2)

//Shortcuts:

`x = x + y; x += y;`

`x = x - y; x -= y;`

`x = x * y; x *= y;`

`x = x / y; x /= y;`

//Absolute Value:

`var abs = Math.abs(x);`

//Square Root:

`var sqrt = Math.sqrt(x);`

GRAPHICS REVIEW (CANVAS)

```
//returns height  
getHeight();
```

```
//returns width  
getWidth();
```

```
//examples:
```

```
var height = getHeight
```

```
var center = getWidth()/2;
```

```
//removes all objects:  
removeAll();
```

```
//returns type of object  
as string
```

```
obj.getType();
```

GRAPHICS REVIEW (CIRCLE)

```
//new circle
```

```
var circle = new Circle(r);
```

```
//example, 50px radius
```

```
var circle = new Circle(50);
```

```
circle.setPosition(x,y);
```

```
circle.setColor(Color.red);
```

```
circle.setRadius(100);
```

```
//add to screen
```

```
add(circle);
```

```
//move circle
```

```
circle.move(dx, dy);
```

JUST GO TO LAB!

HOMEWORK

do the exercise

use class code **0293** for CodeHS!

BEYOND PROGRAMMING CLUB

- check out that AR-Drone API – write a program that we can use for Club Faire
- work on CodeHS at home: you have premium accounts!
- check out resources featured at bento.io
- female members, check out GWC, just a 15 minute walk away from campus – <http://j.mp/gwclub>