# Intro to Functions

## Warm Up

Evaluate the following expression for x = -2

a) 
$$-x^2 + 3x - 1$$
 b)  $2(x - 3)^3 + 1$  c)  $|x - 4| + 2$   

$$= -(-2)^2 + 3(-2) - 1 = 2(-2 - 3)^3 + 1 = |-2 - 4| + 2$$

$$= -(4) + (-6)^{-1} = 2(-5)^3 + 1 = |-6| + 2$$

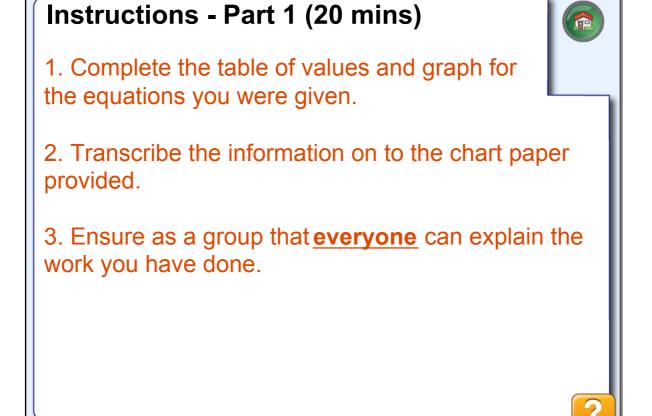
$$= -11$$

$$= 2(-125) + 1 = 6$$

$$= -250 + 1 = 8$$

$$= -249$$

# Groups Group 1: Line + Parabola Group 2: Cubic Group 3: Reciprocal Group 4: Absolute Value Group 5: Circle Group 6: Root



### **Instructions Part 2 (15 mins)**



- 1. Split your group into 2 groups (one group A, one group B)
- 2. Group A stays
- 3. Groups B walks
- 4. Bring your functions booklet with you as you will fill in information.
- 5. You will have **3 minutes** at each group for them to explain the work and graph what they have.



## **Instructions Part 3 (15 mins)**



- 1. Split your group into 2 groups (one group A, one group B)
- 2. Group B stays
- 3. Groups A walks
- 4. Bring your functions booklet with you as you will fill in information.
- 5. You will have **3 minutes** at each group for them to explain the work and graph what they have.



