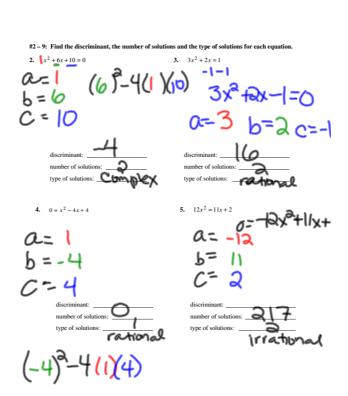
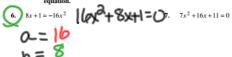


1. What is the discriminant? What does it do?

b2-4ac



5.3A Number and Type of Solutions: Part I



	discriminant:		0		
1	number of solu	tions:		<u> </u>	
1	type of solution	ıs: V	-ost	מסור	al

number of solutions:

8.	$5x^2 - 11x + 6 = 0$	

$$9. \quad 0 = 4x^2 + 5x + 2$$

discriminant:	discriminant:
number of solutions:	number of solutions:
type of solutions:	type of solutions:

10. On a quiz, Brittani used the discriminant to find the number and type of solutions. Find her mistake and find the correct solution.

$$0 = x^2 - 6x + 5$$

$$b^2 - 4ac$$

$$-6^2 - 4(1)(5)$$

$$-36 - 20$$
discriminant: -56
solutions: 2 imaginary solutions

5.3B Number and Type of Solutions: Part II

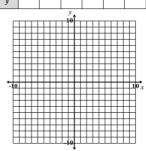
- 1. $y = x^2 2x 8$
- a) What is the discriminant?
- b) Number of solutions? c) Type of solutions?
- d) What are the zeros (roots)?

*Factor or use the graph

- e) Graph the equation.

- g) Is the vertex a minimum or maximum?
- **h)** What is the y-intercept?
- i) What is the domain?
- j) What is the range?

- b) Number of solutions?
- c) Type of solutions?
- d) What are the zeros (roots)? *Factor or use the graph
- e) Graph the equation



- g) Is the vertex a minimum or maximum?
- **h)** What is the y-intercept?
- i) What is the domain?
- j) What is the range?