

SECTION 8.4

- Find the x -intercepts of $y = x^2 + 6x + 9$ algebraically. You may use any technique that works: factoring, the square root property, or the quadratic formula.
- Find the x -intercepts of $y = 3x^2 - 2x + 7$ algebraically. You may use any technique that works: factoring, the square root property, or the quadratic formula.
- Find the x -intercepts of $y = (x + 6)^2$ algebraically. You may use any technique that works: factoring, the square root property, or the quadratic formula.
- Find the x -intercepts of $y = 2x^2 + x - 3$ algebraically. You may use any technique that works: factoring, the square root property, or the quadratic formula.
- Find the x -intercepts of $y = 3x^2 - 15x$ algebraically. You may use any technique that works: factoring, the square root property, or the quadratic formula.
- Find the x -intercepts of $y = 16x^2 + 4x - 7$ algebraically. You may use any technique that works: factoring, the square root property, or the quadratic formula.
- For the table of values for the equation $y = ax^2 + bx + c$, tell whether the discriminant would be positive, negative, or zero. Explain how you decided.

X	Y_1	
3	6	
2	0	
1	4	
0	9	
-1	16	
-2	25	
-3	36	

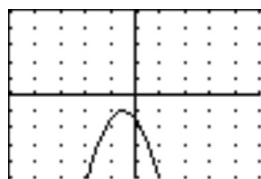
- For the table of values for the equation $y = ax^2 + bx + c$, tell whether the discriminant would be positive, negative, or zero. Explain how you decided.

X	Y_1	
1	9	
2	4	
3	1	
4	0	
5	1	
6	4	
7	9	

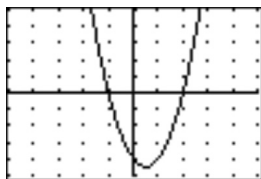
- For the table of values for the equation $y = ax^2 + bx + c$, tell whether the discriminant would be positive, negative, or zero. Explain how you decided.

X	Y_1	
-2	-13	
-1	-8	
0	-3	
1	2	
2	7	
3	12	
4	17	

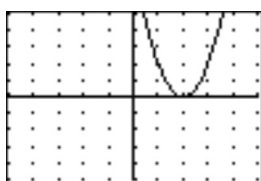
- For the graph of the equation $y = ax^2 + bx + c$, tell whether the discriminant would be positive, negative, or zero. Explain how you decided.



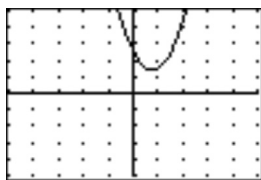
11. For the graph of the equation $y = ax^2 + bx + c$, tell whether the discriminant would be positive, negative, or zero. Explain how you decided.



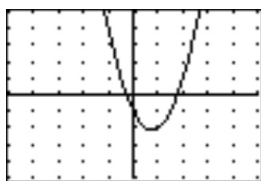
12. For the graph of the equation $y = ax^2 + bx + c$, tell whether the discriminant would be positive, negative, or zero. Explain how you decided.



13. For the graph of the equation $y = ax^2 + bx + c$, tell whether the discriminant would be positive, negative, or zero. Explain how you decided.



14. For the graph of $y = ax^2 + bx + c$, tell whether “ a ” would be positive or negative. Tell whether “ c ” would be positive or negative. Explain how you decided.



15. For the graph of $y = ax^2 + bx + c$, tell whether “ a ” would be positive or negative. Tell whether “ c ” would be positive or negative. Explain how you decided.

