Quadratic Discriminants - Equation to Count of Roots

Name

---

1 What type of roots would this quadratic equation have?

$$y = -0.5x^2 + 2x + 3$$

A	2 complex roots	B	1 real root
C	2 real roots		

2 What type of roots would this quadratic equation have?

$$y = -1.5x^2 - 4x + 4$$

A	2 complex roots	B	1 real root
C	2 real roots		

---

3 What type of roots would this quadratic equation have?

$$y = x^2 - 2$$

A	2 complex roots	B	1 real root
C	2 real roots		

4 What type of roots would this quadratic equation have?

$$y = 0.5x^2 + 2x + 2$$

A	2 complex roots	B	1 real root
C	2 real roots		

---

5 What type of roots would this quadratic equation have?

$$y = x^2 + 4x - 3$$

A	2 complex roots	B	1 real root
C	2 real roots		

6 What type of roots would this quadratic equation have?

$$y = x^2 + 1$$

A	2 complex roots	B	1 real root
C	2 real roots		

---

7 What type of roots would this quadratic equation have?

$$y = -0.5x^2 + 4x + 1$$

A	2 complex roots	B	1 real root
C	2 real roots		

8 What type of roots would this quadratic equation have?

$$y = -1.5x^2 + 3x$$

A	2 complex roots	B	1 real root
C	2 real roots		

Learn online at www.mobius.academy