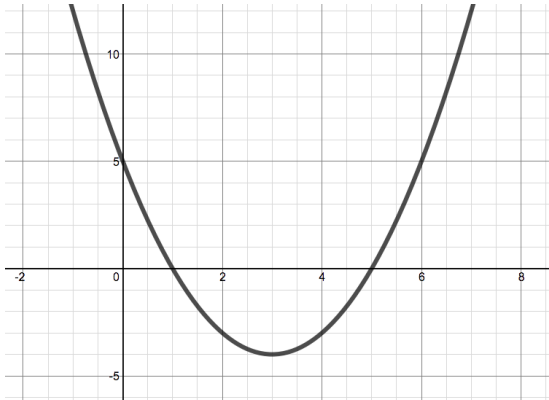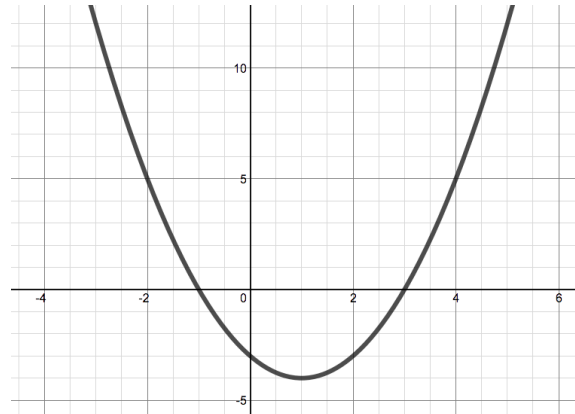Can you match each graph to one of the statements (so that each graph is paired with a single statement)?

Assume that all the graphs have an equation of the form $y = ax^2 + bx + c$
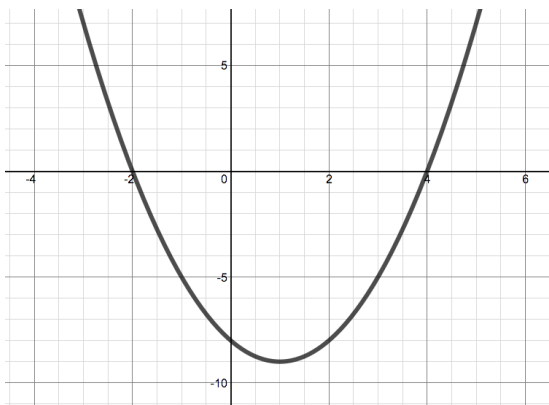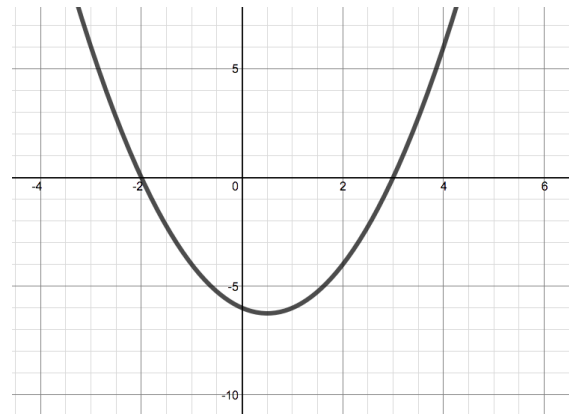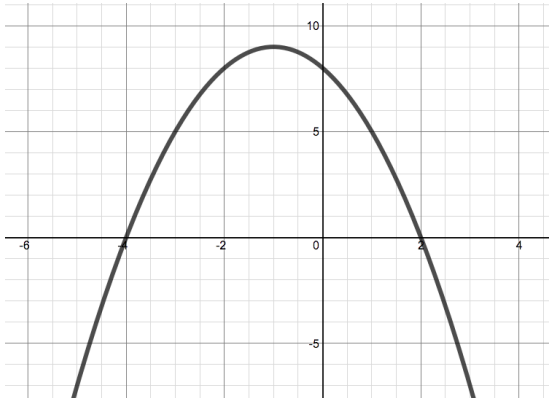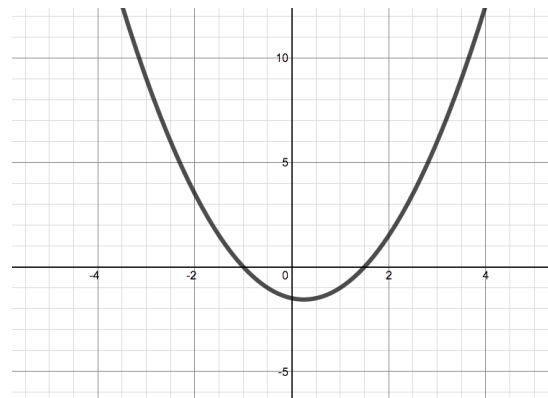
1.

2.

3.

4.

5.
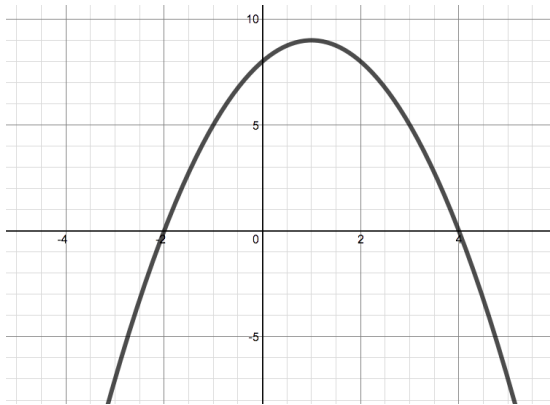

6.
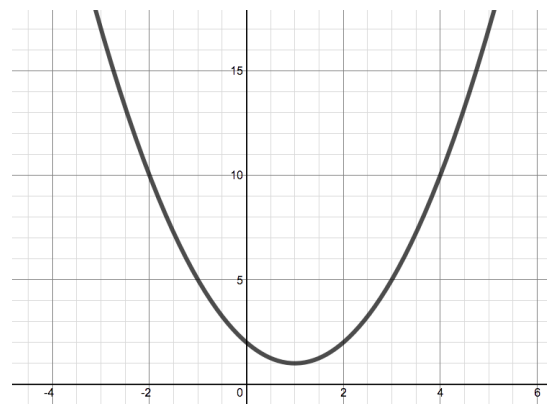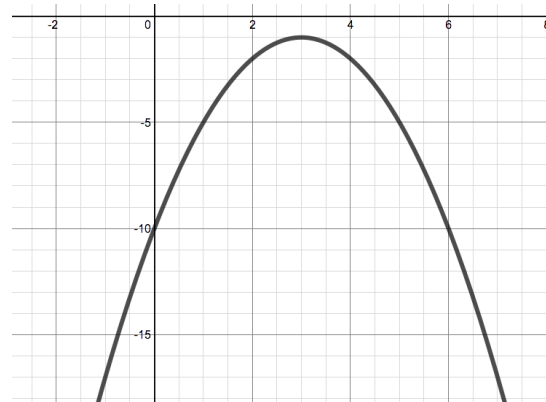
7.

8.

9.

(a) The line of symmetry of this graph is $x=3$

(b) This function has a non-integer root

(c) The line of symmetry of this graph is $x=k$, where $k<0$

(d) The y values for this graph are all greater than 0 (that is, $y>0$)

(e) The vertex of this graph lies on the line $x=1$

(f) The constant term of this function is -8 (that is, $c=-8$)

(g) The sum of the roots of this function are 6

(h) The points $(0,8)$ and $(2,8)$ both lie on this curve

(i) The sum of the roots of this function is an odd number (that is, b is odd)