**Topic 9 Wednesday Review**

**1.** Given the function write the axis of symmetry and the vertex.

 **A** $f\left(x\right)=x^{2}-30x+71$ **B** $f\left(x\right)=x^{2}+24x-4$



**2.** Which of the statement(s) about the graph shown
are true? Select all that apply.

**A** An equation for the graph is $y = 2x^{2} - 9x + 7$.

**B** The function has two roots.

**C** The solutions of the related quadratic equation are
$-1.5$ and $-3.$

**D** The related quadratic equation has two solutions.

**3.** Find the discriminant for the following quadratic equations. State how many solutions the equation has.

 **a.**  $x^{2} + 7x – 2=0$ **b.**  $ 8x^{2}-10x+15=0$

 **c.**  $-2x^{2}– 9x + 3=0$ **d.**  $x^{2}+2x + 1=0$

**4.** Use the quadratic formula to solve the following equations

 **a**. $4x^{2} + 13x + 5 = 0.$ **b**. $2x^{2} + 23x + 17 = 0$