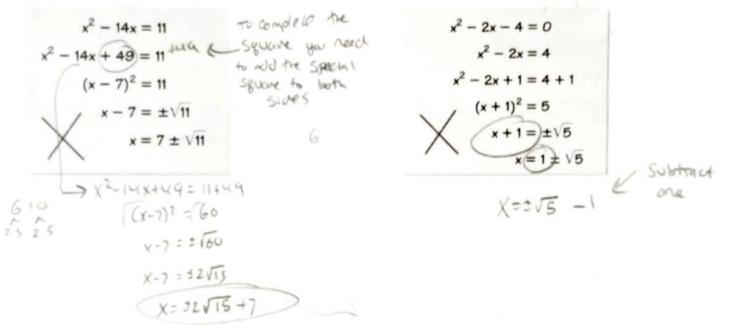


12. What are the zeros of the following equation
$$4x^3 - 24x^2 - 108x = 0$$

 $4x(x^2 - 6x - 27) = 0$
 $x=9$
 $4x(x - 9)(x+3)$
 $x=-3$
13. What are the solutions to the equation $2(x - 3)^2 + 7 = 23^2$
 $-7 = -7$
 $\frac{2(x-3)^2}{2} = \frac{16}{2}$
 $x=\pm 2\sqrt{2} + 3$
 $\sqrt{(x-3)^2 = 6}$
 $x - 3 = \pm 2\sqrt{2}$

14. Describe and correct the error in solving the following equations: $x^2 - 2x - 4 = 0$

$$x^2 - 14x = 11$$



15. Describe and correct the error in solving the following equation using the quadratic formula:

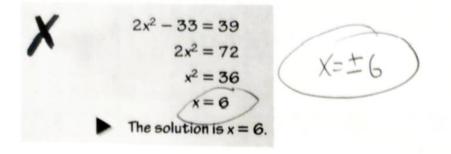
$$x = \frac{-7 \pm \sqrt{(-7)^2 - 4(3)(-6)}}{2(3)}$$

$$= \frac{-7 \pm \sqrt{121}}{6}$$

$$x = \frac{2}{3} and x = -3$$

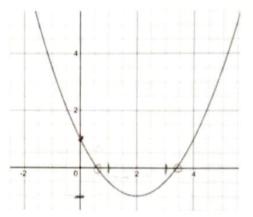
$$nO problem! IT is correct$$

16. Describe and correct the error in solving the following equation by square roots. $3x^{2}-7x-6$



17) Given the graph below answer the following questions:

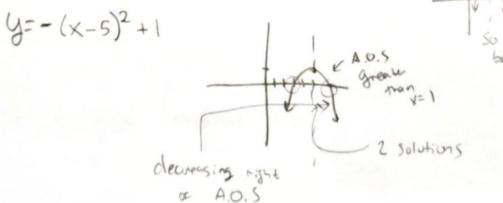
a) Vertex: (2,1)	
b) Axis of Symmetry: X=2	
c) Zeros: <u>X ×.6 X</u> ×1.3	
d) Y-intercept: (0,1)	_
e) Interval of Decrease: (2)



18)Create a quadratic equation meets the following criteria (Your answer must be written in either vertex form or standard form)

- ~ Must have 2 solutions
- ~The Axis of Symmetry must be greater than -1

~The equation must be decreasing to the right of the axis of symmetry



it needs to

e a restation