

$$21. (y-4)^2 = 2y$$

$$(y-4)^2 - 2y = 0$$

$$(y-4)(y-4) - 2y = 0$$

$$y^2 - 4y - 4y + 16 - 2y = 0$$

$$y^2 - 10y + 16 = 0$$

$$(y-8)(y-2) = 0$$

$$y^2 - 2y - 8y + 16$$

$$y^2 - 10y + 16 \checkmark$$

$$y-8=0 \quad y-2=0$$

$$y=8 \quad y=2$$

$$(y-4)^2 = 2y$$

$$(y-4)^2 - 2y = 0$$

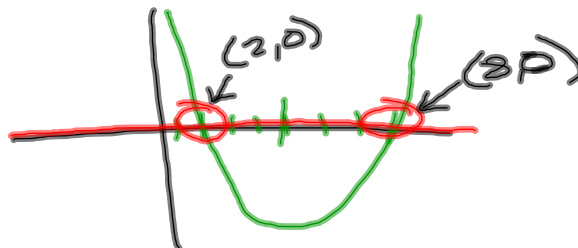
$$(x-4)^2 - 2x = y$$

Graph on calc.

$$y_1 = (x-4)^2 - 2x$$

GRAPH

we want  
points where  
 $y=0$



$$x = 2, 8$$

$$22. \quad y = -x + (x-6)^2$$

$$0 = -x + (x-6)^2$$

$$y = -x + (x-6)^2$$

2nd Calc: zero

$$(4, 0) \quad (9, 0)$$

$$x=4 \quad x=9$$

2/1

$$24. \quad 2(r^2 + 1) = 5r$$

$$6x^2 - 5x - 1$$