

$$3) \left[\frac{2^1 \times 2^4}{2^{(3)}} \right]^5$$

$$\begin{array}{c} // \\ \left(\frac{2^5}{2^6} \right)^5 \end{array}$$

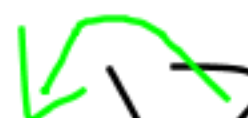
$$\begin{array}{c} // \\ \nearrow \\ // \end{array} \quad \begin{array}{c} 15 \\ 2^5 \\ 32 \end{array}$$

4)

$$- (x^{-2} \times x^4)^3$$

$$(x^2 \times x^{-6})^0$$

$$1 (x^2)^3$$



$$1 (x^6)$$

//

$$1 \times 6$$

anything
with
exp 0
= 1

//

//

$$5) a) \quad 3x^2 - 10x + 8$$

$$\begin{array}{r} \textcircled{x} \cdot 24 \\ \textcircled{+} \div 10 \\ \hline -4 \quad -6 \end{array}$$

$$= \underbrace{3x^2 - 6x}_{3x} - \underbrace{4x + 8}_{-4}$$

$$= 3x(\underline{x-2}) - 4(\underline{x-2})$$

$$= (x-2)(3x-4)$$

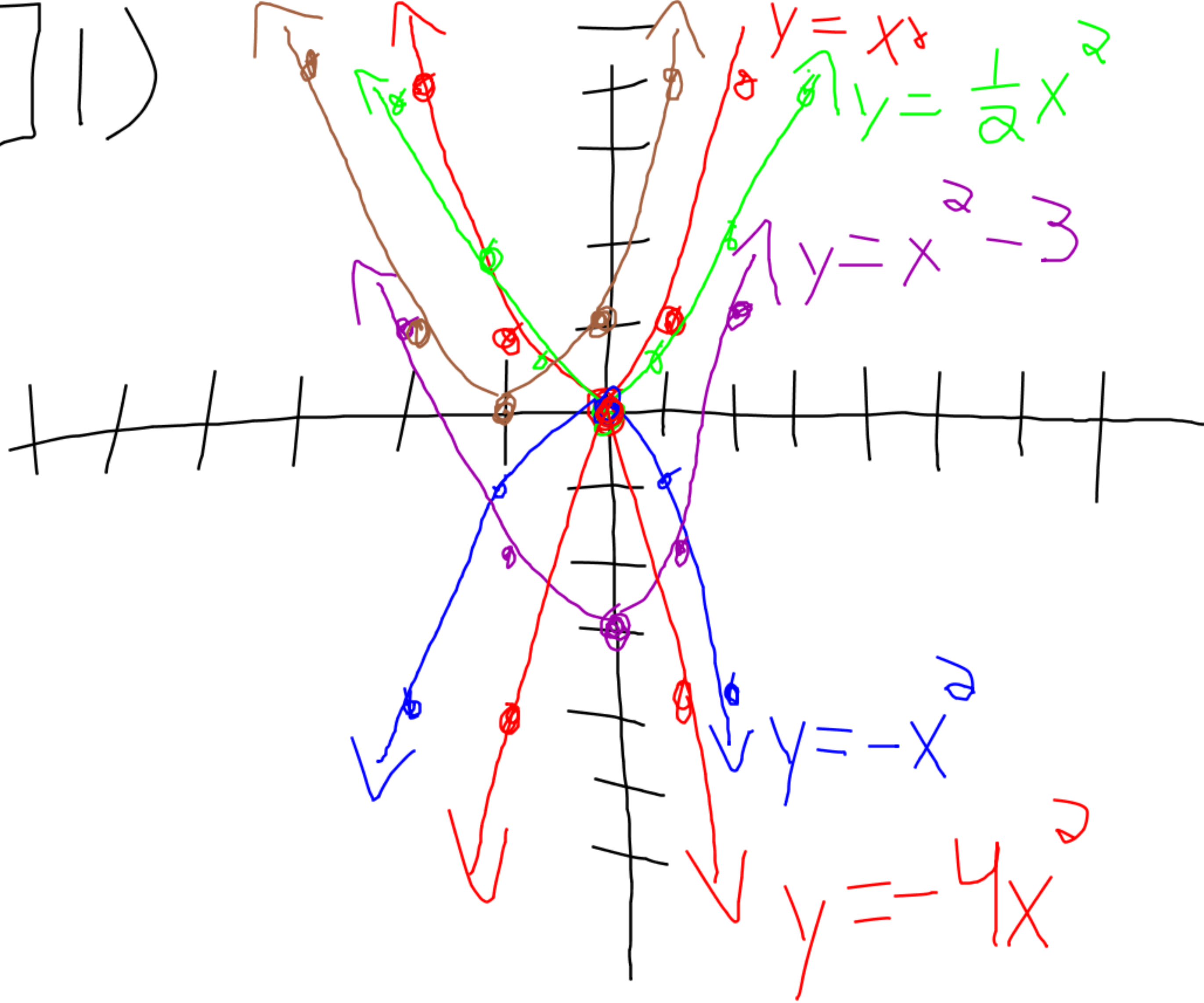


$$b) \quad 4x^2 - 81$$

$$\sqrt{4} = 2$$
$$\sqrt{81} = 9$$

$$= (2x + 9)(2x - 9)$$

4] 1)



$$y = x^2 - 3$$

$$y = (x + 1)^2 + 0$$

vertex $(-1, 0)$

Part 2 #2

$$y = -3(x-3)^2 + 75$$


$$y = -3(x-3)(x-3) + 75$$


$$y = -3(x^2 - 3x - 3x + 9) + 75$$