

review packet

4.) B

$$x^2 - 4x + 4 = 7 + 4$$

$\downarrow \frac{4}{2} = 2^2$

$$\sqrt{(x-2)^2} = \sqrt{11}$$

$$x-2 = \pm\sqrt{11}$$

$x = 2 \pm \sqrt{11}$

3.) B

$$y = 5\sqrt{x+4}$$

$$y = |4x-3|$$

math

Num

1.) abs(

$$8.) \quad (y-2)x = \frac{3y+7}{y-2} (y-2)$$

$$\begin{array}{r} xy - 2x = 3y + 7 \\ \underline{-7} \quad \quad \quad \underline{-7} \end{array}$$

C

$$\begin{array}{r} xy - 2x - 7 = 3y \\ \underline{-xy} \quad \quad \quad \underline{-xy} \end{array}$$

$$-2x - 7 = 3y - xy$$

$$-2x - 7 = y(3 - x)$$

$$\frac{-2x-7}{3-x}$$

$$= y$$

$$f^{-1} = \frac{2x+7}{x-3}$$

$$9.) \quad y = 3(x-2)^2 - 5 \quad y = a(x-h)^2 + k$$

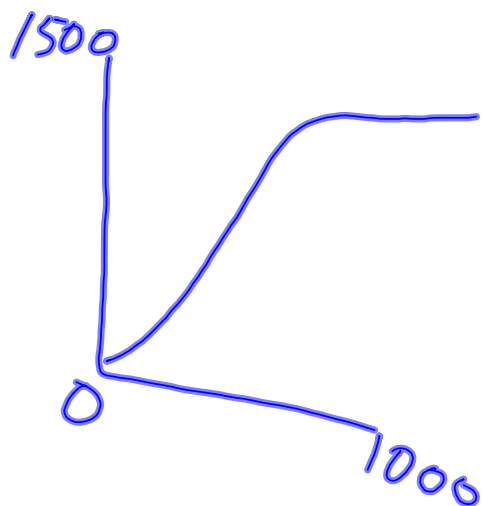
$$y = 3(x^2 - 4x + 4) - 5$$

$$y = 3x^2 - 12x + 12 - 5$$

$$y = 3x^2 - 12x + 7$$

E

15.) $y = 1216 / (1 + 75e^{-0.03x})$



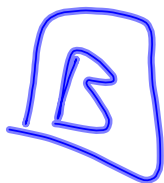
19.) $2x - 3y - 5 = 0$

$-2x + 5 - 3y = 0$

$-3y = -2x + 5$

$y = \frac{2}{3}x - \frac{5}{3}$

$m_{\perp} = -\frac{3}{2}$
 $(-1, 2)$
 (x_1, y_1)



$y - y_1 = m(x - x_1)$

(2) $y - 2 = -\frac{3}{2}(x + 1)$

$2y - 4 = -3(x + 1)$

$2y - 4 = -3x - 3$
 $+3x + 3 \quad +3x + 3$

 $3x + 2y - 1 = 0$

