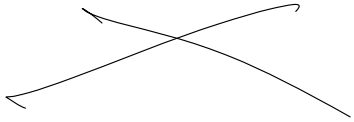
midterm



$8n = -2$

$n = -\frac{1}{4}$

$\Delta = b^2 - 4ac$

toa : $\tan\theta = \text{opp}/\text{adj}$

cah : $\cos\theta = \text{adj}/\text{hypo}$

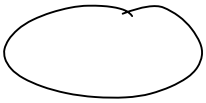
soh : $\sin\theta = \text{opp}/\text{hypo}$

$\text{rad} = \text{degree} \times \frac{\pi}{180}$

$\text{degree} = \text{rad} \times \frac{180}{\pi}$

Let $y = \dfrac{(x-1)(x-3)}{(x-2)(x-5)}$. Then the curve has 3 vertical asymptotes

□



$$dx\,\frac{dp}{dx}$$

$$\frac{dx}{dz} = \frac{z}{G} \quad x = \frac{z^2}{2} + C$$

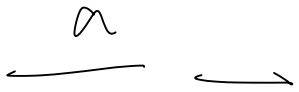
$$\begin{pmatrix} 7 \\ 4 \\ 2 \end{pmatrix}$$

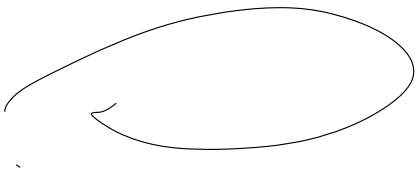
$$r\begin{pmatrix} 2 \\ 3 \\ 4 \end{pmatrix} + \lambda \begin{pmatrix} -1 \\ 1 \\ 1 \end{pmatrix}$$

Q

$\overrightarrow{PQ} = q - p$

$= 2 - \lambda - 7$





?

$(x+iy)^2 = a+bi$

$x^2 + 2ixy$

i