E1 - 3y + 72 = -98 E3 16y-33z=72 EI says - 34 + 72 = -98 -3y = -72-98 $\left(16\left(\frac{72+98}{2}\right)-332=72\right)(3)$ 16(72+98)-992=2161122+1560-992=216 132 =-1352 $2 = \frac{1352}{13} = -104 = 2$ $y = \frac{7(-104) + 98}{3} = -\frac{630}{3} = (-210 = 9)$ $x = \frac{32+30}{2} = \frac{3(-104)+30}{2} = -141 = X$ (x, y, z) = (-141, -210, -104)

Discriminant

$$b^{2} + 3c$$

$$= 0$$

$$i solution
$$2 0 2 non real solutions
$$= a partial square 2 rational
solutions.
(T + factors!)
(T + fac$$$$$$

$$\begin{split} & w_{n} \cdot t_{r} \quad \text{in lowest terms.} \\ & \frac{x^{2} + x - 6}{x^{2} + 2x - 3} = \frac{(x + 3)(x - 2)}{(x + 3)(x - 1)} = \frac{x - 2}{x - 1} \quad (x \neq -3) \\ & Domain : \frac{5 \pm n P f}{2} \quad \text{is bad} \\ & D = \frac{5}{7} \times \left| x \neq 1 \text{ and } x \neq -3 \right| \\ & x + 3 = 0 \\ & x = -3 \quad Bad \\ & x = 1 \quad Bad \\ & \frac{x^{2} - 5 + 6}{x - 2} = \frac{(x - 2)(x - 3)}{(x - 2)} = \left[x - 3 \quad (x \neq 2) \right] \\ & y = \frac{x^{2} - 5 + 6}{x - 2} \quad \text{is exactly like } y = x - 3, \text{ only} \\ & \text{it has a hole } (x \neq 2) \\ & y = \frac{x^{2} - 5 + 6}{x - 2} \quad \text{is exactly like } y = x - 3, \text{ only} \\ & \text{it has a hole } (x \neq 2) \\ & y = \frac{x^{2} - 5 + 6}{x - 2} \quad \text{is exactly like } y = x - 3, \text{ only} \\ & \text{it has a hole } (x \neq 2) \\ & y = \frac{x^{2} - 5 + 6}{x - 2} \quad \text{is exactly like } y = x - 3, \text{ only} \\ & \text{it has a hole } (x \neq 2) \\ & y = \frac{x - 3}{x - 2} \quad \text{is exactly like } y = x - 3, \text{ only} \\ & \text{it has a hole } (x \neq 2) \\ & y = x - 3 \quad \text{is find the hole } (x \neq 2) \\ & y = x - 3 \quad \text{is find the hole } (x \neq 2) \\ & y = x - 3 \quad \text{is find the hole } (x \neq 2) \\ & y = x - 3 \quad \text{is find the hole } (x \neq 2) \\ & y = x - 3 \quad \text{is find the hole } (x \neq 2) \\ & y = x - 3 \quad \text{is find the hole } (x \neq 3) \\ & y$$

Special Boducts

$$x^{2}-y^{2} = (x-y)(x+y)$$

 $x^{3}-y^{3} = (x-y)(x^{2}+xy+y^{2})$
 $x^{3}+y^{3} = (x+y)(x^{2}-xy+y^{2})$
 $x^{2}+y^{2} = Does not fector.$

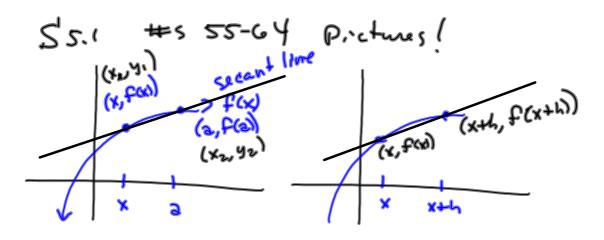
$$= x^{2} - (-i)y^{2}$$

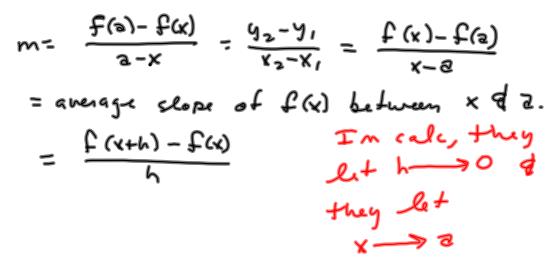
= x^{2} - i^{2}y^{2} = (x - (iy))(x + (iy))
= x^{2} - (iy)^{2} = 1
Not tested on.

Did you Konow
$$4 - x = -(x - 4)$$

 $-i(\frac{4}{-1} - \frac{x}{-1}) = -i(-4 + x)$
 $= -(x - 4)$
 $\frac{x - 4}{4 - x} = \frac{x - 4}{-(x - 4)} = \frac{1}{-1} = -1$

$$\frac{x^{2}-32x-2x+62}{x^{2}-32x+2x-62} = \frac{x(x-32)-2(x-32)}{x(x-32)+2(x-32)}$$
$$= \frac{(x-32)(x-2)}{(x-32)(x+2)} = \boxed{\frac{x-2}{x+2}} (x \neq 32)$$





$$\begin{array}{rcl}
&=& \frac{f(x)-f(x)}{x-a} = \frac{x^{2}-3}{x-a} & (x \neq a) \\
&=& \frac{f(x)-f(x)}{x-a} = \frac{x^{2}-3}{x-a} = \frac{(x-a)(x+a)}{x-a} & (x \neq a) \\
&=& \frac{x^{2}-3-a^{2}+3}{x-a} = \frac{x^{2}-a^{2}}{x-a} = \frac{(x-a)(x+a)}{x-a} & (x \neq a) \\
&=& \frac{x^{2}-3-a^{2}+3}{x-a} = \frac{(x+b)^{2}-3-(x^{2}-3)}{b} \\
&=& \frac{x^{2}+2xb+b^{2}-3-x^{2}+3}{b} = \frac{2xb+b^{2}}{b} = \frac{k(2x+b)}{b} \\
&=& \frac{x^{2}+2xb+b^{2}-3-x^{2}+3}{b} = \frac{2xb+b^{2}}{b} = \frac{k(2x+b)}{b} \\
&=& \frac{1}{2}x+b & b = 0 & \text{makes if } 2x \\
&=& \frac{f(x+b)-f(x)}{b} & \frac{f(x)-f(a)}{x-a} \\
&=& \frac{f(x+b)-f(x)}{b} & \frac{f(x)-f(a)}{x-a}
\end{array}$$

Summaize our Biogress. Get 4.1,4.2 to me by Friday. BH 134K 4.3,4.4 Friday 50% Bonus 5.1 '' 100% ''