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

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$$3x^{2}+y = A(x+1)^{2} + B(x+1)(x+1) + C(x+1)$$

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$$2 = C(-2) \implies So C = 7.$$

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$$3x^{2}+y = A(x+1)^{2} + A(x+1)^{2}$$

$$4x+1 + A(x+1)^{2} + A(x+1)^{2}$$

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$$3x^{2}+y = A(x+1)^{2} + A(x+1)^{2} + A(x+1)^{2}$$

$$4x+1 + A(x+1)^{2} + A($$

93.2) a)
$$I = \int \frac{u+2}{u+2u+5} du$$

So introducible on $I = u + 2 = 0$

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So $I = \frac{1}{2} \int \frac{2u+2}{u^2+2u+5} du + \int \frac{1}{u^2+2u+5} du + \int \frac{1}{u^2+2u+5} du + \int \frac{1}{u^2+2u+5} du$

$$= \frac{1}{2} \int \frac{2u+2}{u^2+2u+5} du + \int \frac{1}{u^2+2u+5} du + \int \frac{1}{u^2+2u+$$

From A₁B₁C S.a.,

$$u(u^{2}+2u+5) = u^{2} + u^{2}+2u+5$$
.

 $1 = A(u^{2}+2u+5) + (2u+c)u$
 $2(A+B) + u(2A+c) + 5A$
 $2(A+B) + u(2A+c) + 5A$
 $4 + B = 0$
 $2A + C = 0$
 $2A + C = 0$
 $3A + C = 0$

9.3.25 a) N.a. 2+i of a row i
$$z^2-11z+30=0$$
.

Moradal Sur im 2+i os hop por roll... P

Ruhe: hust on z of an z of an z of roll z of z of

$$\frac{31}{4^{10}} = \int_{x/n}^{x/n} (x^{2} + 2x + 10) dx$$

$$= \int_{x/n}^{x/n} (x^{2} + 2x + 10) - \int_{x/n}^{x/n} x^{2} + 2x + 10$$

$$= \int_{x/n}^{x/n} (x^{2} + 2x + 10) - \int_{x/n}^{x/n} x^{2} + 2x + 10$$

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$$= \int_{x/n}^{x/n} (x^{2} + 2x + 1) - \int_{x/n}^{x/n} x^{2} + 2x + 10$$

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$$= \int_{x/n}^{x/n} (x^{2} + 2x + 1) - \int_{x/n}^{x/n} x^{2} + 2x + 10$$

$$= \int_{x/n}^{x/n} (x^{2} + 2x + 1) -$$