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

$$X = A(x-1) + B(x+3)$$

$$X' = A + B = 1$$

$$X' = A + 3B = 0 \Rightarrow A = 3(\frac{1}{4})$$

$$AB = \frac{1}{4B} = \frac{1}{4B}$$

$$AB = \frac{1}{4$$

$$a_{n} = (-1) \frac{1}{n+1}$$

$$a_{n} = (-1) \frac{1}{n$$

$$2 + 5 + 8 + - + (7 =) (3n-1)$$

$$d = 5 - 2 = 3$$

$$a_n = 2 + (n-1)(3)$$

$$= 2 + 3n - 3$$

$$= 3n - 1$$

$$17 - 2$$

$$3 = 5 + 1$$

Anithm.
$$Q_{12}$$
: $Q_{5} = 4$ $Q_{15} = -96$

$$d = \frac{-96 - 4}{18 - F} = -\frac{100}{10} = -105$$

$$Q_{5} = Q_{1} + 7(-10)$$

$$Q_{6} = Q_{1} + 7(-10)$$

$$Q_{12} = 74 + 11(-10)$$

$$Q_{12} = 74 - 110$$

$$Q_{13} = 74 - 110$$

$$Q_{14} = -365$$

$$\frac{Gcom}{h} = \frac{a_{q} \cdot a_{z} = c}{a_{z}} = \frac{a_{z} = 32}{32}$$

$$h = \frac{32}{4} = \frac{3}{5} = \frac{3}{3}$$

$$= \frac{32}{4} = \frac{3}{3} = \frac{3$$

$$\frac{25}{1-1} = 5(25)$$

$$= 125$$

$$\frac{45}{8} = 8 (45 - 15 + 1)$$

$$= 3 + 5 + 7 + 9 + 11$$

$$= 35$$

$$\frac{2}{3} = \frac{3}{1-\frac{2}{3}} = \frac{3}{1-\frac{2}{3}} = \frac{3}{1-\frac{2}{3}}$$

$$\frac{2}{1-\frac{2}{3}} = \frac{3}{1-\frac{2}{3}} = \frac{3}{1-\frac{2}{3}}$$

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$$\frac{2}{1-\frac{2}{3}} = \frac{3}{1-\frac{2}{3}}$$

$$\frac{2}{1-\frac{2}{3}} = \frac{3}{1-\frac{2}{3}}$$

 $\frac{x^{2}}{25^{2}} + \frac{y^{2}}{20^{2}} = 1$ $\frac{y^{2}}{20^{2}} = 1 - \left(\frac{5}{25}\right)^{2}$ $\frac{(15)}{20} \stackrel{?}{=} 201$ $\frac{325}{400} \stackrel{?}{=} \frac{35}{25} = 1$ $\frac{325}{400} \stackrel{?}{=} \frac{35}{25} = 100$ $\frac{325}{25} \stackrel{?}{=} \frac{35}{25} = 100$ $\frac{325}{25} \stackrel{?}{=} \frac{35}{25} = 100$ $\frac{325}{25} \stackrel{?}{=} \frac{35}{25} = 100$ $\frac{35}{25} = 1$

$$6257^{2} - 4000 \times^{2} = 25 \times 10^{4}.$$

$$-3\frac{y^{2}}{400} - \frac{x^{2}}{625} = 1$$

$$\alpha^{2} = 400$$

$$\alpha = 20$$
The closest point: $2\alpha = 40$ | $yands$.

1+5+9+...+
$$(4n-3) = n(2n-1)$$

For $n=1 \Rightarrow 1 = 1(2-1)$
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10 +2+32+--+n= n(n+1) (2n+1) For $n=1 \Rightarrow 1^2 = \frac{1(2)(3)}{2}$ $1 = 1 \times P_i$ is true. Assum: Pristme: 12, -- + k= 1 k(k+1)(2k+1) 15 / 1 = + + + + (k+1) = = (641) (k+2) (2k+3) 12. -- + k2+(k+1)= - 1 k(k+1) (2k+1) + (k+1) 6 - [(6+1) [k(2k+1) + 6(6+1)] $= \frac{1}{6}(k+1)(2k^2+7k+6)$ $= \frac{1}{6}(k+1)(k+2)(2k+3)$ $= \frac{1}{6}(k+1)(k+2)(2k+3)$ Per isalso true : By the mathematical induction, the given proof is completed.

Proof always on reparate (orly)
paper

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

$$3x-1 = A(x+2)+B(x-1)$$

$$x' A + B = 3 \rightarrow B = 3 - \frac{3}{3}$$

$$x'' \frac{2A-B=-1}{3A=2} = \frac{7}{3}$$

$$\frac{3x-1}{(x-1)(x+2)} = \frac{2/3}{x-1} + \frac{7/3}{x+2}$$

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

$$x' A + 2B = A \rightarrow A = 2 - 2 - \frac{3}{5}$$

$$x' A + 2B = 1 - \frac{3}{5}$$

$$x'' A + 2B = 1 - \frac{3$$

$$\frac{x^{2}}{a^{2}} + \frac{7^{2}}{b^{2}} = 1$$

$$\frac{y^{2}}{b^{2}} = 1 - \frac{x^{2}}{a^{2}} \left(\frac{x}{a}\right)^{2}$$

$$\frac{y^{2}}{a^{2}} = \frac{a^{2} - x^{2}}{a^{2}} \left(a^{2} - x^{2}\right)$$

$$\frac{y^{2}}{a^{2}} = \frac{b^{2}}{a^{2}} \left(a^{2} - x^{2}\right)$$

$$\frac{y^{2}}{a^{2}} = \frac{b^{2}}{a^{2}} \left(a^{2} - x^{2}\right)$$

$$\frac{y^{2}}{b^{2}} = \frac{a^{2} - x^{2}}{a^{2}}$$

$$\frac{y^{2}}{a^{2}} = \frac{1}{a^{2}} \left(a^{2} - x^{2}\right)$$

$$\frac{y^{2}}{a^{2}} = 1 - \left(\frac{8}{a^{2}}\right)^{2}$$

$$= 1 - \frac{1}{16}$$

$$= \frac{15}{42}$$

$$81 \times 4 = \frac{15}{2} \left(15\right) \left(25\right)$$

$$81 \times 4 = \frac{15}{2} \left(15\right) \left(25\right)$$

$$81 \times 4 = \frac{15}{2} \left(15\right) \left(25\right)$$

$$324 < 375$$

$$clean$$