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$$F_{107} = F_{1} + F_{2} - F_{3} + F_{4} + F_{5} - F_{6} + \dots$$

$$= \frac{|q||q|}{d^{2}} + \frac{|q||q|}{(2d)^{2}} - \frac{|q||-q|}{(3d)^{2}} + \frac{|q||q|}{(3d)^{2}} + \dots$$

$$= \frac{|q||q|}{d^{2}} \left(1 + \frac{1}{2^{2}} - \frac{1}{3^{2}} + \frac{1}{4^{2}} + \frac{1}{5^{2}} - \frac{1}{6^{2}} + \dots\right)$$

$$= \frac{|q|}{d^{2}} \left(1 + \frac{1}{2^{2}} + \frac{1}{4^{2}} + \frac{1}{5^{2}} + \dots - \frac{1}{3^{2}} + \frac{1}{4^{2}} + \frac{1}{5^{2}} + \dots\right)$$

$$= \frac{|q|}{d^{2}} \left(1 + \frac{1}{2^{2}} + \frac{1}{4^{2}} + \frac{1}{5^{2}} + \dots - \frac{1}{3^{2}} + \frac{1}{4^{2}} + \frac{1}{5^{2}} + \dots\right)$$

$$= \frac{|q|}{d^{2}} \left(1 + \frac{1}{2^{2}} + \frac{1}{4^{2}} + \frac{1}{5^{2}} + \frac{1}{5^{2}} + \dots - \frac{1}{3^{2}} + \frac{1}{6^{2}} + \frac{1}{5^{2}} + \dots\right)$$

$$= \frac{|q|}{d^{2}} \left(1 + \frac{1}{2^{2}} + \frac{1}{3^{2}} + \frac{1}{4^{2}} + \frac{1}{5^{2}} + \frac{1}{5^{2}} + \dots\right)$$

$$= \frac{|q|}{d^{2}} \left(1 + \frac{1}{2^{2}} + \frac{1}{3^{2}} + \frac{1}{4^{2}} + \frac{1}{5^{2}} + \frac{1}{5^{2}} + \dots\right)$$

$$= \frac{|q|}{d^{2}} \left(1 + \frac{1}{2^{2}} + \frac{1}{3^{2}} + \frac{1}{5^{2}} + \frac{1}{5^{2}} + \dots\right)$$

$$= \frac{|q|}{|q|} \left(1 + \frac{1}{2^{2}} + \frac{1}{4^{2}} + \frac{1}{4^{2}} + \frac{1}{5^{2}} + \dots\right)$$

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$$= \frac{|q|}{|q|} \left(1 + \frac{1}{2^{2}} + \frac{1}{5^{2}} + \frac{1}{5^{2}} + \dots\right)$$

$$= \frac{|q|}{|q|} \left$$

$$= k_{0} \frac{q^{2}}{d^{2}} \left(1 + \frac{1}{2^{2}} + \frac{1}{4^{2}} + \frac{1}{5^{2}} + \dots - \frac{1}{3^{2}} \left(1 + \frac{1}{2^{2}} + \frac{1}{3^{2}} + \dots \right) \right)$$

$$= k_{0} \frac{q^{2}}{d^{2}} \left(1 + \frac{1}{2^{2}} + \frac{1}{4^{2}} + \frac{1}{5^{2}} + \dots - \frac{\pi^{2}}{3^{3} \cdot 2} \right)$$

$$= k_{0} \frac{q^{2}}{d^{2}} \left(1 + \frac{1}{2^{2}} + \frac{1}{3^{2}} + \frac{1}{4^{2}} + \frac{1}{5^{2}} + \frac{1}{5^{2}} + \dots - \left(\frac{1}{3^{2}} + \frac{1}{6^{2}} + \frac{1}{9^{2}} + \dots \right) - \frac{\pi^{2}}{3^{3} \cdot 2} \right)$$

$$= k_{0} \frac{q^{2}}{d^{2}} \left(\frac{\pi^{2}}{6} - \frac{\pi^{2}}{3^{3} \cdot 2} - \frac{\pi^{2}}{3^{3} \cdot 2} \right) = k_{0} \frac{q^{2}}{1^{2}} \frac{\pi^{2}}{6} \left(1 - \frac{1}{9} - \frac{1}{9} \right)$$

$$= k_{0} \frac{q^{2}}{d^{2}} \left(\frac{\pi^{2}}{6} - \frac{\pi^{2}}{3^{3} \cdot 2} - \frac{\pi^{2}}{3^{3} \cdot 2} \right) = k_{0} \frac{q^{2}}{1^{2}} \frac{\pi^{2}}{6} \left(1 - \frac{1}{9} - \frac{1}{9} \right)$$