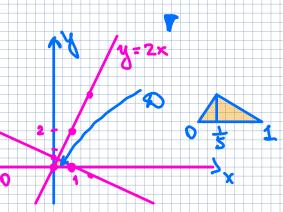
## WRH-8-Solutions

15.4: 1,6 15.5: 2,11

3 0 4x 4 5 2 4 4 4 5 5

The total charge is

 $Q = \iint_{S} G(x,y) dA = \int_{S} \int_{S} (2x+hy) dy dx = \int_{S} (2xy+2y^{2}) | \frac{5}{2} dx = \int_{S} (10x+50-hx-8) dx = \int_{S} (6x+hz) dx$ 



$$\begin{cases} y = 2x \\ 4x + 2y = 4 \\ y = 2(4 - 2y) = 2 - 4y \\ 5y = 2 \\ 4 = 5 = 3 \\ 2 = 3 = 4 - 4x = 15 \end{bmatrix}$$

$$\bar{x} = \frac{1}{m} \int_{0}^{\frac{1}{3}} \frac{dx}{x^{2}} dA + \frac{1}{m} \int_{0}^{\frac{1}{3}} \frac{1}{x^{2}} dA = \frac{1}{m} \int_{0}^{\frac{1}{3}} \frac{1}{x^{2}} dA = \frac{1}{m} \int_{0}^{\frac{1}{3}} \frac{1}{x^{2}} dA + \frac{1}{m} \int_{0}^{\frac{1}{3}} \frac{1}{x^{2}} dA = \frac{1}{m} \int_{0}^{\frac{1}{3}} \frac{1}{x^{2}} dA + \frac{1}{m} \int_{0}^{\frac{1}{3}} \frac{1}{x^{2}} dA = \frac{1}{m} \int_{0}^{\frac{1}{3}} \frac{1}{x^{2}} dA + \frac{1}{m} \int_{0}^{\frac{1}{3}} \frac{1}{x^{2}} dA = \frac{1}{m} \int_{0}^{\frac{1}{3}} \frac{1}{x^{2}} dA + \frac{1}{m} \int_{0}^{\frac{1}{3}} \frac{1}{x^{2}} dA = \frac{1}{m} \int_{0}^{\frac{1}{3}} \frac{1}{x^{2}} dA + \frac{1}{m} \int_{0}^{\frac{1}{3}} \frac{1}{x^{2}} dA = \frac{1}{m} \int_{0}^{\frac{1}{3}} \frac{1}{x^{2}} dA + \frac{1}{m} \int_{0}^{\frac{1}{3}} \frac{1}{x^{2}} dA = \frac{1}{m} \int_{0}^{\frac{1}{3}} \frac{1}{x^{2}} dA + \frac{1}{m} \int_{0}^{\frac{1}{3}} \frac{1}{x^{2}} dA = \frac{1}{m} \int_{0}^{\frac{1}{3}} \frac{1}{x^{2}} dA + \frac{1}{m} \int_{0}^{\frac{1}{3}} \frac{1}{x^{2}} dA = \frac{1}{m} \int_{0}^{\frac{1}{3}} \frac{1}{x^{2}} dA + \frac{1}{m} \int_{0}^{\frac{1}{3}} \frac{1}{x^{2}} dA = \frac{1}{m} \int_{0}^{\frac{1}{3}} \frac{1}{x^{2}} dA + \frac{1}{m} \int_{0}^{\frac{1}{3}} \frac{1}{x^{2}} dA = \frac{1}{m} \int_{0}^{\frac{1}{3}} \frac{1}{x^{2}} dA + \frac{1}{m} \int_{0}^{\frac{1}{3}} \frac{1}{x^{2}} dA = \frac{1}{m} \int_{0}^{\frac{1}{3}} \frac{1}{x^{2}} dA + \frac{1}{m} \int_{0}^{\frac{1}{3}} \frac{1}{x^{2}} dA + \frac{1}{m} \int_{0}^{\frac{1}{3}} \frac{1}{x^{2}} dA = \frac{1}{m} \int_{0}^{\frac{1}{3}} \frac{1}{x^{2}} dA + \frac{1}{m} \int_{0}^{\frac{1}{3}} \frac{1}{x^{2}} dA = \frac{1}{m} \int_{0}^{\frac{1}{3}} \frac{1$$

$$\frac{1}{3} = \frac{1}{5} \int_{0}^{1/5} \int_{0}^{2x} xy \, dy \, dx + \frac{1}{5} \int_{0}^{1+x} xy \, dy \, dx = \frac{1}{60}$$

$$m = \frac{2}{25}$$
 ,  $(x, y) = (\frac{31}{60}, \frac{7}{60})$ 

$$= \frac{2 \cdot 2 \times 00}{6 \cdot 125 \cdot 100} + 6 \cdot 125 \cdot 100 = 6 \cdot 125 + 1$$

$$\begin{array}{lll}
\Omega: & x^{2} + y^{2} = 25 \\
f(x,y) = 2 \\
f_{x} = -3 \\
f_{y} = -2
\end{array}$$

$$A(S) = \iint Q + 4 + 1 dA = 14$$

$$\begin{array}{lll}
T + dO dr = 14
\end{array}$$

$$\begin{array}{lll}
T + dO dr = 14$$

$$\begin{array}{lll}
T + dO dr = 14
\end{array}$$

$$\begin{array}{lll}
T + dO dr = 14
\end{array}$$

$$\begin{array}{lll}
T + dO dr = 14
\end{array}$$

$$\begin{array}{lll}
T + dO dr = 14$$

$$\begin{array}{lll}
T + dO dr = 14
\end{array}$$

$$\begin{array}{lll}
T + dO dr = 14$$

$$\begin{array}{lll}
T + dO dr = 14
\end{array}$$

$$\begin{array}{lll}
T + dO dr = 14$$

$$\begin{array}{lll}
T + dO dr = 14
\end{array}$$

$$\begin{array}{lll}
T + dO dr = 14$$

$$\begin{array}{lll}
T + dO dr = 14
\end{array}$$

$$\begin{array}{lll}
T + dO dr = 14$$

$$\begin{array}{lll}
T + dO dr = 14
\end{array}$$

$$\begin{array}{lll}
T + dO dr = 14$$

$$\begin{array}{lll}
T + dO dr = 14
\end{array}$$

$$\begin{array}{lll}
T + dO dr = 14$$

$$\begin{array}{lll}
T + dO dr = 14
\end{array}$$

$$\begin{array}{lll}
T + dO dr = 14$$

$$\begin{array}{lll}
T + dO$$

$$A(S) = \iint_{X} \int_{X} f_{x}^{2} + f_{y}^{2} + 1 dA$$

$$f(x,y) = \int_{\alpha^{2} - x^{2} - y^{2}} f_{x}^{2} + \int_{\alpha^{2}$$

$$= 0^{2}\pi - 20^{2}\int_{0}^{\pi} \sin\theta \,d\theta = 0^{2}(\pi - 2)$$