

$$ps := (x - 600) \cdot \left(15000 + 400 \left(\frac{(y - 4000)}{2000} \right) \right) + 15000 \cdot (0.4) \cdot \left(\left(\frac{(850 - x)}{100} \right) \right) - y;$$

$$(x - 600) \left(14200 + \frac{1}{5} y \right) + 51000.00000 - 60.00000000 x - y \quad \mathbf{(1)}$$

expand(ps)

$$14140.00000 x + \frac{1}{5} xy - 8.469000000 \cdot 10^6 - 121 y \quad \mathbf{(2)}$$