Semi-Definite Programming SKETCH

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1 Fert-Simplex

$$\text{Min} \quad \frac{\sum_{i=1}^{n} a_{i1}x_1}{p_1} + \frac{\sum_{i=1}^{n} a_{i2}x_2}{p_2} + \frac{\sum_{i=1}^{n} a_{i3}x_3}{p_3}$$

$$\text{s.t.}$$
$$2x_1 + x_3 \geq 1$$
$$x_2 + x_3 \geq 5$$
$$x_1 + 3x_2 \geq 3$$
$$x_2 \geq 11$$
$$x_3 \geq 8$$