**Ejercicio 2**

*Halla las soluciones de la ecuación $2x + 6y = 28$, sabiendo el valor de una de las incógnitas.*

*a)* $x = 5$ *c)* $y = 1$ *e)* $y = -3$

*b)* $x = 10$ *d)* $y = 0$ *f)* $x = \frac{1}{2}$

**Solución.**

a) $x = 5$

$$2x + 6y = 28 \implies 2 \cdot 5 + 6y = 28 \implies 6y = 18 \implies \boxed{y = 3}$$

b) $x = 10$

$$2x + 6y = 28 \implies 2 \cdot 10 + 6y = 28 \implies 6y = 8 \implies \boxed{y = 4/3}$$

c) $y = 1$

$$2x + 6y = 28 \implies 2x + 6 \cdot 1 = 28 \implies 2x = 22 \implies \boxed{x = 11}$$

d) $y = 0$

$$2x + 6y = 28 \implies 2x + 6 \cdot 0 = 28 \implies 2x = 28 \implies \boxed{x = 14}$$

e) $y = -3$

$$2x + 6y = 28 \implies 2x + 6 \cdot (-3) = 28 \implies 2x = 46 \implies \boxed{x = 23}$$

f) $x = \frac{1}{2}$

$$2x + 6y = 28 \implies 2 \cdot \frac{1}{2} + 6y = 28 \implies 6y = 27 \implies \boxed{y = 9/2}$$