

CORRECCIÓN Del examen

①-

$x \rightarrow$ nº estudiantes = 30

$y \rightarrow$ Precio por alumno = 18€

Total
540€

+6 alumnos
-3€

$$x \cdot y = 540$$

$$(x+6) \cdot (y-3) = 540$$

$$\rightarrow x = \frac{540}{y} = \boxed{30}$$

$$x = \frac{540}{y}$$

$$\left(\frac{540}{y} + 6\right) \cdot (y-3) = 540$$

$$\frac{540y}{y} + 6y - \frac{3 \cdot 540}{y} - 18 = 540$$

$$540y + 6y^2 - 1620 - 18y - 540y = 0$$

$$6y^2 - 18y - 1620 = 0$$

$$18 \pm \sqrt{18^2 - 4 \cdot 6 \cdot (-1620)}$$

$$\frac{18 \pm \sqrt{39.204}}{12} =$$

$$\frac{18+198}{12} = \boxed{18}$$

$$\frac{18-198}{12} = -\cancel{16}$$

Solución →

18€

30 alumnos