

反射テスト 1次方程式 いろいろ 01

1. 次の方程式を解け。(S級45秒, A級1分30秒, B級3分, C級5分)

(1) $6x = -9.6$

(2) $3x - 5 = 15 - x$

(3) $6(x - 2) - 2(x - 5) = -2$

(4) $\frac{x-2}{2} - \frac{4x-3}{3} = 1$

2. 次の方程式を解け。(S級45秒, A級1分30秒, B級3分, C級5分)

(1) $0.6x = -2.4 - x$

(2) $5x - 39 = 15 - x$

(3) $3(x - 2) - 2(3 - x) = 10$

(4) $\frac{x-1}{4} - \frac{x+3}{3} = \frac{1-x}{2}$

反射テスト 1次方程式 いろいろ 01 解答解説

1. 次の方程式を解け。(S級45秒, A級1分30秒, B級3分, C級5分)

(1) $6x = -9.6$

(2) $3x - 5 = 15 - x$

$60x = -96$ ←両辺 $\times 10$

$3x + x = 15 + 5$ ←移項

$x = -\frac{96}{60}$ ←両辺 $\div 60$

$4x = 20$

$x = -\frac{8}{5}$

$x = 5$

(3) $6(x - 2) - 2(x - 5) = -2$

(4) $\frac{x-2}{2} - \frac{4x-3}{3} = 1$

$6x - 12 - 2x + 10 = -2$ ←展開

$3(x - 2) - 2(4x - 3) = 6$ ←両辺 $\times 6$

$4x - 2 = -2$

$3x - 6 - 8x + 6 = 6$ ←展開

$4x = -2 + 2$ ←移項

$-5x = 6$

$4x = 0$

$x = -\frac{6}{5}$

$x = 0$

2. 次の方程式を解け。(S級45秒, A級1分30秒, B級3分, C級5分)

(1) $0.6x = -2.4 - x$

$$6x = -24 - 10x \quad \leftarrow \text{両辺} \times 10$$

$$6x + 10x = -24 \quad \leftarrow \text{移項}$$

$$16x = -24 \quad \leftarrow \text{移項}$$

$$x = -\frac{3}{2}$$

(2) $5x - 39 = 15 - x$

$$5x + x = 15 + 39 \quad \leftarrow \text{移項}$$

$$6x = 54$$

$$x = 9$$

(3) $3(x - 2) - 2(3 - x) = 10$

$$3x - 6 - 6 + 2x = 10 \quad \leftarrow \text{展開}$$

$$5x - 12 = 10$$

$$5x = 10 + 12 \quad \leftarrow \text{移項}$$

$$5x = 22$$

$$x = \frac{22}{5}$$

(4) $\frac{x-1}{4} - \frac{x+3}{3} = \frac{1-x}{2}$

$$3(x-1) - 4(x+3) = 6(1-x) \quad \leftarrow \text{両辺} \times 12$$

$$3x - 3 - 4x - 12 = 6 - 6x \quad \leftarrow \text{展開}$$

$$-x - 15 = 6 - 6x$$

$$-x + 6x = 6 + 15 \quad \leftarrow \text{移項}$$

$$5x = 21$$

$$x = \frac{21}{5}$$