

POP QUIZ!!

Each problem below is incorrect. Find the error and rework the problem off to the right.

1. $\frac{x-3}{5} + 4 = -10$

$$x-3+4 = -50$$

$$x+1 = -50$$

$$x = -51$$

2. $2|x-5| + 12 = 30$

$$2|x-5| = 18$$

$$x-5 = 9$$

$$x = 14$$

3. $4(x+3)^2 - 8 = 100$

$$(4x+12)^2 - 8 = 100$$

$$(4x+12)^2 = 108$$

$$4x+12 = \sqrt{108}$$

$$4x+12 = 10.39$$

$$4x = -1.6$$

$$x = -0.40$$

$$4. 3 + 4\sqrt{x+1} = 5$$

$$4\sqrt{x+1} = 2$$

$$\sqrt{x+1} = \frac{1}{2}$$

$$x+1 = \left(\frac{1}{2}\right)^2$$

$$x+1 = \frac{1}{4}$$

$$x = -0.75$$

$$5. |x-4| = 3$$

$$x-4 = 3 \quad x+4 = 3$$

$$x = 7 \quad x = -1$$

$$6. 8 - \frac{3}{x} = 32$$

$$-\frac{3}{x} = 24$$

$$x = -\frac{1}{8}$$