

# ANSWER PRESENTATION TOOL

Algebra 1 - Student Edition 1

Chapter Test 1-16

[ALL](#) [EVEN](#)

Show Solutions

ODD

1.  $x = 22$ ; Add 7 to each side.

2.  $x = -3$ ; Subtract 5 from each side; Multiply each side by  $\frac{3}{2}$ .

3.  $x = -\frac{1}{5}$ ; Subtract  $x$  and 1 from each side; Divide each side by 10.

4.  $x = -3, x = 9$

5.  $x = 3$

6. infinitely many solutions

7.  $x = -6$

8.  $x = -4, x = 8$

9. no solution

10.  $c \neq 5$ ; If  $c$  is 5, then the equation is an identity. For all other values of  $c$ , subtracting  $3x$  from each side will give a statement that is always false.

that is always false.

**11.**  $c < 0$ ; An absolute value cannot be negative.

**12.**  $|h - 34| = 4$

**13. a.**  $w = \frac{P - 2\ell}{2}$

**b.** 65 yd

**c.** about 4.8%

**14. a.** 2.1 h; The cost at the dealership is  $24 + 99t$  and the cost at the local mechanic is  $45 + 89t$ . Set these two expressions equal and solve for the time.

**b.** time is less than 2.1 h; time is greater than 2.1 h; Because the expressions are equal for 2.1 hours, that is the cutoff point from the dealership being less expensive to the local mechanic being less expensive.

**15.** It will give a negative value on the right and absolute value cannot be negative.

**16.** It is an identity, meaning that all real numbers are solutions of the equation.