1. The sum of all solutions of the equation

$$\frac{|x-1|+2}{1+|x-1|} - \frac{2}{3} = 0.$$

- 2. The cost of producing x-calculators in dollars is given by $C = 1500 \frac{3}{2}x$. The number of calculators that can be produced at cost of \$1200 equals to ...
- 3. The solution set of |x| + 3x 9 = 0 consists of
 - (a) Two positive rational numbers.
 - (b) Only one positive rational number.
 - (c) One positive and one negative rational numbers.
 - (d) Two negative rational numbers.
 - (e) Only one negative rational number.
- 4. If the equation 18x 12 = 3(ax + b) 6x is an identity, then $a + b = \dots$

5. If
$$t = \frac{3}{2}x(5y - 7z)$$
 then $z = ...$

6. The sum of all solutions of the equation

$$3|2x+1| + 4 = 28$$

is equal to ...

7. The equation
$$\frac{20x-9}{4} = \frac{15x+11}{3}$$
 is

- (a) Contradiction
- (b) Conditional
- (c) An identity
- (d) Equivalent to the equation 60x 27 = 0.
- (e) Equivalent to the equation 60x + 44 = 0.