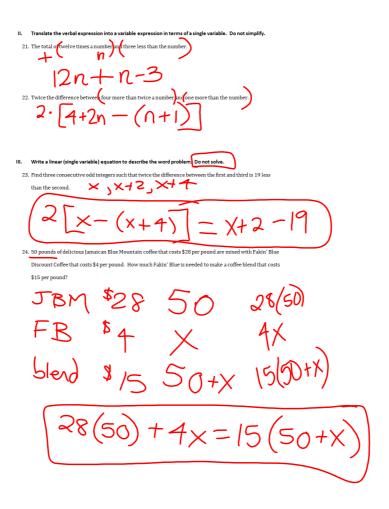
Intermediate Algebra 8th per Test 1 Solutions

September 04, 2013





$$= 5 - [2n - 6n - 2] = 5 - [-4n - 2]$$

$$= 5 + 4n + 2 = [7 + 4n]$$

$$8r-1=3-r$$
 $8r+r=3+1$
 $9r=4$

$$r = 4$$

Given the sets A, B, and C (and all the usual sets listed on the first page), determine the following unions,

intersections, and relative complements. Give the answer in the simplest form possible.

$$A = \{1, 2, 3, 4, 5\}, B = \left\{-2, -1, \frac{1}{2}, \frac{5}{6}, 3, 5, 6\right\}, C = \left\{-\sqrt{5}, \pi\right\}$$

$$_{31. A-B} = \{1,2,4\}$$

Solve the linear inequality. Give the solution in your choice of interval or set-builder notation.

33.
$$3x + 5 \le 5x + 9$$

$$0x-7x>5+10$$
 $3x>15$
 $x>5$

$$3x - 5x \le 9 - 5$$
 $-2x \le 4$
 $x \ge -2$
 $34.10x - 10 > 7x + 5$
 $3x \ge 15$
 $3x \ge 15$
 $3x \ge 15$
 $3x \ge 5x + 9$
 $3x \ge -2$
 $5x \ge 9 - 5$
 $5x \ge 9$

VIII. Graph the compound inequality on the number line, and give the solution in your choice of notation.

